## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

 $\begin{tabular}{ll} MONITORING\ PERIOD\ for\ (year/quarter): \\ \end{tabular}$ 

200 T

Jan/Feb/Mar

Apr/May/Jun

Jul/Aug/Sep

Oct/Nov/Dec

Facility/Site Information

Mailing Information

LONGVIEW FIBRE SEATTLE Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point ROOF DEAIN TO OUTFALL 001   |   |         |         |                   |             |                |  |  |  |  |  |  |
|---|---|---------|---------|-------------------|-------------|----------------|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |   |         |         |                   |             |                |  |  |  |  |  |  |
| Quarterly Monitoring  |   | AVERAGE | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |  |
| Turbidity   | Consistent Attainment                           | 2.6     | _       | NTU               | GRAB        |                |  |  |  |  |  |  |
| pН  | Consistent Attainment                           | 7.29    |         | Standard<br>Units | <b>\t</b>   |                |  |  |  |  |  |  |
| Zinc (total)  | Consistent Attainment                           | 151     |         | μg/L              | , ,         |                |  |  |  |  |  |  |
| Oil & Grease  | Oil & Grease Consistent Attainment ND mg/L Grab |         |         |                   |             |                |  |  |  |  |  |  |

Monitoring associated with impaired waterbodies:

| Discharge Point ROOF DRAIN TO OUTFALL 001   |  |      |  |                   |      |  |  |  |  |  |  |  |
|---|--|------|--|-------------------|------|--|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |  |      |  |                   |      |  |  |  |  |  |  |  |
| Quarterly Monitoring  | AVERAGE MAXIMUM UNITS Sample Type Events Sampled |      |  |                   |      |  |  |  |  |  |  |  |
| pН  | Consistent Attainment                            | 7.29 |  | Standard<br>Units | GRAB |  |  |  |  |  |  |  |
| Solids, Total<br>Suspended  | Consistent Attainment                            | 20   |  | mg/L              | ц    |  |  |  |  |  |  |  |

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE IS USC § 1001 AND 30 USC § 1319. \*\*IPENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO SIGNOC. OF AND OR MAXIMUM IMPRISONMENT OF RETWEEN SIT MONTHS AND FIVE YEARS.)

NAME/ITTILE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)

DATE: MO DAY YEAR

\*\*SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT\*\*

TELEPHONE NUMBER

COMMENTS / EXPLANATIONS

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter):

2007

Jan/Feb/Mar

Apr/May/Jun

Jul/Aug/Sep



Facility/Site Information

LONGVIEW FIBRE SEATTLE

Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

Mailing Information

LONGVIEW FIBRE COMPANY

PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point ROOF DRAIN TO OUTFALL ØØ1   |                       |         |         |                   |             |                |  |  |  |  |  |  |
|---|-----------------------|---------|---------|-------------------|-------------|----------------|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |                       |         |         |                   |             |                |  |  |  |  |  |  |
| Quarterly Monitoring  |                       | AVERAGE | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |  |
| Turbidity   | Consistent Attainment | 2.6     |         | NTU               | GRAB        |                |  |  |  |  |  |  |
| рН  | Consistent Attainment | 7.29    |         | Standard<br>Units | /1          |                |  |  |  |  |  |  |
| Zinc (total)  | Consistent Attainment | 151     |         | μg/L              | ę t         |                |  |  |  |  |  |  |
| Oil & Grease  | Consistent Attainment | ND      |         | mg/L              | Grab        |                |  |  |  |  |  |  |

Monitoring associated with impaired waterbodies:

| Discharge Point ROOF DRAIN TO OUTFALL 001   |  |      |  |                   |      |  |  |  |  |  |  |  |
|---|--|------|--|-------------------|------|--|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |  |      |  |                   |      |  |  |  |  |  |  |  |
| Quarterly Monitoring  | AVERAGE MAXIMUM UNITS Sample Type Events Sampled |      |  |                   |      |  |  |  |  |  |  |  |
| рН  | Consistent Attainment                            | 7.29 |  | Standard<br>Units | GRAB |  |  |  |  |  |  |  |
| Solids, Total<br>Suspended  | Consistent Attainment ND mg/L 11                 |      |  |                   |      |  |  |  |  |  |  |  |

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY POUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND DIFFRISONMENT. SEE IS USC § 1001 AND 31 USC § 1319. (PENALTIES UNDER THESE STATUES MAT INCLUDE FINES UP TO \$10,000.00 AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

NAMELITILE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)

DATE: MO

DATE: MO

DAY

YEAR

204-762-7170

TELEPHONE NUMBER

COMMENTS / EXPLANATIONS

\_\_\_\_\_\_\_



January 17, 2008

Analytical Report for Service Request No: K0800257

Larry Gentile Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Larry:

Enclosed are the results of the sample submitted to our laboratory on December 28, 2007. For your reference, these analyses have been assigned our service request number K0800257.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Ed Wallace

Project Chemist

EW/lb

Page 1 of

**6** 

NELAP Accredited

ACIL Seal of Excellence Award

😩 100% Recycled

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case parrative.
- \* The duplicate analysis not within control limits. See case narrative
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- \* The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

## Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

| Program                | Number      |
|------------------------|-------------|
| Alaska DEC UST         | UST-040     |
| Arizona DHS            | AZ0339      |
| Arkansas - DEQ         | 88-0637     |
| California DHS         | 2286        |
| Colorado DPHE          |             |
| Florida DOH            | E87412      |
| Hawaii DOH             | -           |
| Idaho DHW              | -           |
| Indiana DOH            | C-WA-01     |
| Louisiana DEQ          | 3016        |
| Louisiana DHH          | LA050010    |
| Maine DHS              | WA0035      |
| Michigan DEQ           | 9949        |
| Minnesota DOH          | 053-999-368 |
| Montana DPHHS          | CERT0047    |
| Nevada DEP             | WA35        |
| New Jersey DEP         | WA005       |
| New Mexico ED          | -           |
| North Carolina DWQ     | 605         |
| Oklahoma DEQ           | 9801        |
| Oregon - DHS           | WA200001    |
| South Carolina DHEC    | 61002       |
| Utah DOH               | COLU        |
| Washington DOE         | C1203       |
| Wisconsin DNR          | 998386840   |
| Wyoming (EPA Region 8) |             |







Client:

Longview Fibre Paper and Packaging, Inc.

Service Request No.:

K0800257

Project:

Seattle Stormwater

Date Received:

12/28/07

Sample Matrix:

Water

#### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

One water sample was received for analysis at Columbia Analytical Services on 12/28/07. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

#### **General Chemistry Parameters**

pH by SM 4500-H+B

Solids, Total Suspended (TSS) by SM 2540 D

Total Suspended Solids and pH were added to sample Roof Drain past the recommended holding time. The analysis was performed as soon as possible. The data is flagged to indicate the holding time violation.

Emw Date 1/16/08 Approved by

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0800257

Project Name:

Seattle Stormwater

Date Collected: 12/27/07

Project Number: NA Sample Matrix: WATER

Date Received: 12/28/07

pН

Analysis Method:

SM 4500-H+ B

Units: pH Units Basis: NA

Test Notes:

Sample Name

Lab Code

MRL

Dilution Factor

Date/Time Analyzed

Result Notes Result

Roof Drain

K0800257-001

01/10/08 12:35

7.46

X

SM

Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Project Number: NA

Seattle Stormwater

Sample Matrix: WATER

SM 2540 D

Service Request: K0800257

Date Collected: 12/27/07

Date Received: 12/28/07

Solids, Total Suspended (TSS)

 $Units:\ mg/L$ 

Basis: NA

Test Notes:

Analysis Method:

| Sample Name  | Lab Code     | MRL | Dilution<br>Factor | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|--------------|-----|--------------------|------------------|--------|-----------------|
| Roof Drain   | K0800257-001 | 5   | 1                  | 01/10/08         | ND     | X               |
| Method Blank | K0800257-MB  | 5   | 1                  | 01/10/08         | ND     |                 |

Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

000117

SM

## SO3-000206D

## INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter):

2007 year

Jan/Feb/Mar

Apr/May/Jun

Jul/Aug/Sep

Oct/Nov/Dec

Facility/Site Information

Mailing Information

LONGVIEW FIBRE SEATTLE

Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point   | ROUFDRAIN TO          | Chattail ( | VØ 1    |                   |             |                |  |  |  |  |  |  |
|---|-----------------------|------------|---------|-------------------|-------------|----------------|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |                       |            |         |                   |             |                |  |  |  |  |  |  |
| Quarterly Monitoring  |                       | AVERAGE    | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |  |
| Turbidity   | Consistent Attainment | 3,7        |         | NTU               | GRAB        |                |  |  |  |  |  |  |
| рН  | Consistent Attainment | 7.63       |         | Standard<br>Units | -11         |                |  |  |  |  |  |  |
| Zinc (total)  | Consistent Attainment | 54         |         | μg/L              | 17          |                |  |  |  |  |  |  |
| Oil & Grease  | Consistent Attainment | ND         |         | mg/L              | Grab        |                |  |  |  |  |  |  |

Monitoring associated with impaired waterbodies:

| Discharge Point   | KOCE DRAIN TO   | CINTEALL | 441 |                   |      |  |  |  |  |  |  |
|---|---|----------|-----|-------------------|------|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |   |          |     |                   |      |  |  |  |  |  |  |
| Quarterly Monitoring  | 10nitoring AVERAGE MAXIMUM UNITS Sample Type Events San |          |     |                   |      |  |  |  |  |  |  |
| pН  | Consistent Attainment                                   | 7.63     |     | Standard<br>Units | GRAB |  |  |  |  |  |  |
| Solids, Total<br>Suspended  | Consistent Attainment                                   | 70       |     | mg/L              | ţı   |  |  |  |  |  |  |



October 30, 2007

Analytical Report for Service Request No: K0709247

Larry Gentile Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Larry:

Enclosed are the results of the sample submitted to our laboratory on October 09, 2007. For your reference, these analyses have been assigned our service request number K0709247.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Ed Wellan

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/lb

Page 1 of



## Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Monday, November 05, 2007 8:52 AM

·To:

'josm461@ecy wa.gov'

Subject:

#rd Qtr. StormWater reporting

Attachments: 3rd qtr 2007 stormwater.pdf

Please confirm receipt. Have had e-mails bounced back previously and want to make sure this gets to you. Regards,

### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case parrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- \* The result is an outlier. See case parrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- . E The result is an estimate amount because the value exceeded the instrument calibration range.
  - J . The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

## Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

| Program                | Number      |
|------------------------|-------------|
| Alaska DEC UST         | UST-040     |
| Arizona DHS            | AZ0339      |
| Arkansas - DEQ         | 88-0637     |
| California DHS -       | 2286        |
| Colorado DPHE          | •           |
| Florida DOH            | E87412      |
| Hawaii DOH             | -           |
| Idaho DHW              | -           |
| Indiana DOH            | C-WA-01     |
| Louisiana DEQ          | 3016        |
| Louisiana DHH          | LA050010    |
| Maine DHS              | WA0035      |
| Michigan DEQ           | 9949        |
| Minnesota DOH          | 053-999-368 |
| Montana DPHHS          | CERT0047    |
| Nevada DEP             | WA35        |
| New Jersey DEP         | WA005       |
| New Mexico ED          | -           |
| North Carolina DWQ     | 605         |
| Oklahoma DEQ           | 9801        |
| Oregon - DHS           | WA200001    |
| South Carolina DHEC    | 61002       |
| Utah DOH               | COLU        |
| Washington DOE         | C1203       |
| Wisconsin DNR          | 998386840   |
| Wyoming (EPA Region 8) | -           |





Client:

Longview Fibre & Packaging, Inc.

Service Request No.:

K0709247

Project:

Seattle Stormwater

Date Received:

10/09/07

Sample Matrix:

Water

#### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

## Sample Receipt

One water sample was received for analysis at Columbia Analytical Services on 10/09/07. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°Cupon receipt at the laboratory.

#### **General Chemistry Parameters**

Solids, Total Suspended by SM 2540 D pH by SM 4500-H+ B Turbidity by EPA Method 180.1

Sample was received past the recommended holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

#### **Total Metals**

No anomalies associated with the analysis of these samples were observed

#### Diesel Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples were observed

Approved by EVUL Date 10/30/07

Analytical Report,

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0709247

Project Name:

Seattle Stormwater

Date Collected: 09/30/07

Project Number: NA Sample Matrix: WATER

Date Received: 10/09/07

Solids, Total Suspended (TSS)

Units: mg/L

Analysis Method:

SM 2540 D

Basis: NA

Test Notes:

| Sample Name  | Lab Code      | MRL | Dilution<br>Factor | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|---------------|-----|--------------------|------------------|--------|-----------------|
| Roof Drain   | K.0709247-001 | 5   | 1                  | 10/09/07         | ND     | X               |
| Method Blank | K0709247-MB   | 5   | 1                  | 10/09/07         | ND     |                 |

Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

0006

SM

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0709247

Project Name:

Seattle Stormwater

Date Collected: 09/30/07

Project Number: NA Sample Matrix:

WATER

Date Received: 10/09/07

pН

Analysis Method:

SM 4500-H+ B

Units: pH Units

Basis: NA

Test Notes:

Sample Name

MRL

Factor Analyzed

Result Notes Result

Roof Drain

K.0709247-001

Lab Code

Dilution

10/09/07 13:44

Date/Time

7.63

Χ

SM

Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Project Number: NA

Sample Matrix:

Seattle Stormwater

WATER

Service Request: K0709247

Date Collected: 09/30/07

Date Received: 10/09/07

Turbidity

Units: NTU

Basis: NA

Analysis Method:

Test Notes:

180.1

Dilution Date/Time Result . Sample Name Lab Code MRL Factor Analyzed Notes Result Roof Drain K0709247-001 0.2 10/09/07 15:35 3.7 Х Method Blank K0709247-MB 10/09/07 15:35 ND 0.2

## - Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Project No.:

NA

Service Request: K0709247

Sample Name:

Roof Drain Method Blank Lab Code:

K0709247-001 K0709247-MB

Comments:

## Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name : Project No. : Seattle Stormwater NA

Matrix:

Water

Service Request: K0709247 Date Collected: 09/30/07

Date Collected: 09/30/07 Date Received: 10/09/07 Date Extracted: 10/10/07

Total Metals Units: ug/L (ppb)

| Analyte:                | Copper  | Lead  | Zinc   |
|-------------------------|---|---|--|
| EPA Method:             | 6010B   | 7421  | 6010B  |
| Method Reporting Limit: | 10  | 2.0   | 10   |
| Date Analyzed:          | 10/11/07  | 10/12/07  | 10/11/07   |
| Lab Code                |   |   |  |
| K0709247-001            | 11  | ND  | 54   |
|                         | ND  | ND  | ND   |
|                         | EPA Method: Method Reporting Limit: Date Analyzed: Lab Code | EPA Method: 6010B Method Reporting Limit: 10 Date Analyzed: 10/11/07  Lab Code  K0709247-001 11 | EPA Method: 6010B 7421 Method Reporting Limit: 10 2.0 Date Analyzed: 10/11/07 10/12/07  Lab Code  K0709247-001 11 ND |

Comments:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0709247

Project:

Seattle Stormwater

Date Collected: 9/30/2007

Sample Matrix:

Water

Date Received: 10/9/2007

Oil and Grease

Sample Name:

Roof Drain

Units: mg/L (ppm)

Lab Code:

K0709247-001

Basis: NA

Test Notes:

Prep Analysis

1664

Dilution Date Date Factor Extracted Analyzed Result Result

Analyte

Method Method MRL

Notes

Oil and Grease, Total (HEM)

**METHOD** 

5.0

10/11/2007 10/11/2007 1

ND

Approved By: 1\$22/020597p

K0709247phc kc1 - 1 10/16/2007

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0709247

Project:

Seattle Stormwater

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K071011-WB

Basis: NA

Test Notes:

Analyte

K0709247phc kc) - MB 10/16/2007

Prep Method Analysis Method MRL

1664

Dilution Factor Extracted Analyzed Result

Date

Result Notes

Oil and Grease, Total (HEM)

METHOD

5.0

10/11/2007 10/11/2007

Date

Date: Approved By: 1S22/020597p

0012

LFC002366

| Columbia<br>Analytical         | Analytical CIPATIA OF COSTODI          |             |              |  |              |                 |                   |                      |             |                 |   |  |                       | SR#: 10709047  |                  |          |  |                |            |  |   |            |      |        |            |
|--------------------------------|--|-------------|--------------|--|--------------|-----------------|-------------------|----------------------|-------------|-----------------|---|--|-----------------------|--|------------------|----------|--|----------------|------------|--|---|------------|------|--------|------------|
| Services on ned Company        | 13                                     | 17 South 13 | th Ave. • Ke | lso, WA 9  | 8626 •       | (360)           | 577-722           | 2 • (                | 800) 6      | 95-722          | 2x07                                    | • FAX  | (360)                 | 636-10   | 168              | Ρ        | AGE  | :              |            | OF   |   |            | CO   | C #    |            |
| PROJECT NUMBER PROJECT MANAGER |  | DIESHW      |              |  |              | 7               | $\overline{}$     | John Williams        | 7           | PEXU            | 7/                                      | 7 88/2   |                       | 7/   | 8151AC           | 7        | 7/   | 7 /            | T /        | \<br>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\         | <del>/</del>                            | 2905       | 7/   | 7/     |            |
|                                | EAST                                   | MARC        | inai Lu      | ky S   | <i>i</i> , 7 | CONTAINERS      | //                | 8270 Janics by GCANG |             |                 | (FIQ) #                                 | 7. 168   | Pesticides/H. Congent | 0 8 1.7 \ 8 1.4 \ 8 1. | 8751M            |          | Psolved  | Hex-Chroz      | D # 00 # 1 | Noste TKN  | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |            |      | /,     | ///        |
| PHONE ZCL - 761-71             | @ lone                                 | in bre.     |              | z442   |              | \(\frac{1}{2}\) | Semivolatile Orga | 80/2                 | W/ 8        | OF THE FINE (** | 500                                     | A THE STATE OF THE |                       | 908 14 Dic   | PAHS Tella 8151M | 7010     | Cyanida Cyanid |                |            | 2. DV  | $\cap I$                                | ' /        |      |        |            |
| SAMPLE I.D.                    | DATE                                   | TIME        | LAB I.D.     | IMATRIX  | NUMBER       | /               | Semiy             | Volatile (           | 1 2 6       |                 | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |                       |  | Z/ A             | Setal    |  |                |            |  | <b>]</b> .                              | /          | /    | /      | REMARKS    |
| ROF DRAW#1                     | 4/3/02                                 | 1300        | CAST.S.      | WATTUR.  |              |                 |                   |                      |             |                 | <u>'</u>                                |  |                       |  |                  |          | -  |                |            |  |   |            |      |        |            |
| ROLE DRAIN# Z                  | 9/2/0                                  | 1300        |              |  |              |                 |                   |                      |             |                 |   |  |                       |  |                  | ~        |  |                |            |  |   |            |      |        | 72176      |
| RUE DRAW# 3                    | 9/3/0                                  | 1300        |              |  |              |                 |                   |                      |             |                 |   |  |                       |  |                  |          |  | $\overline{V}$ |            |  |   |            |      |        | TEXT FEZ   |
|                                |  |             |              |  |              | ·               |                   |                      |             |                 |   |  |                       |  |                  |          |  |                |            |  |   |            |      |        | ,          |
|                                |  |             |              | <del> </del>                                     |              |                 |                   | _                    |             |                 |   |  |                       |  |                  |          |  |                |            |  |   |            |      |        |            |
| 1                              |  |             |              |  |              |                 |                   |                      |             |                 |   |  |                       |  |                  |          |  |                | -          |  |   |            |      | _      |            |
|                                | <b> </b>                               |             |              | <del>                                     </del> |              |                 |                   |                      | <del></del> |                 |   |  |                       |  |                  |          |  |                | -          | <b></b> -  |   | -          |      |        |            |
| !                              | <b></b> .                              |             |              |  |              |                 |                   |                      |             |                 |   |  |                       |  |                  |          |  |                |            | <del>                                     </del> |   |            |      |        |            |
|                                |  |             |              |  |              |                 |                   |                      |             |                 |   |  |                       |  |                  |          |  |                |            |  |   |            |      |        |            |
| REPORT REQUIREM                | ENTS                                   | 9           | DICE INFOR   |  | 4            | Circle          | which r           | netals               | aje lo      | be ana          | lyzed:                                  |  |                       |  |                  |          |  |                |            | •  |   |            |      |        |            |
| I. Routine Report:             | 1                                      |             |              |  |              |                 |                   |                      |             |                 |   |  |                       |  |                  |          |  | _              |            |  | _                                       |            |      |        | Sn V Zn Hg |
| Blank, Surrogate required      | , as                                   | <u> </u>    |              |  |              |                 | ved Meta          |                      |             |                 |   |  |                       |  |                  |          |  |                |            |  |   | ·          | Se S |        | Sn V Zn Hg |
| II. Report Dup., MS required   | , MSD as                               | TURNAF      | OUND RE      | UIREM  | ENTS         | SPE             | CIAL IN           | STR                  | UCTK        | ONS/C           | OMM                                     | ENTS   | :                     |  | . <u>Ar</u>      | <u> </u> |  | NO             | n i i ji   | <u>resi</u>                                      | OIII                                    | <u>LIT</u> |      | _ (011 | OLL ONL)   |
| III. Data Validation F         | Report                                 | 24<br>5 c   |              | 48 hr.   |              | ۔ ا             |                   | -                    | - [         | -<br>           | -2                                      |  | <u>_</u>              |  |                  |          |  |                |            |  |   |            |      |        |            |
| (includes all raw              | aw data) Standard (10-15 working days) |             |              |  |              |                 |                   |                      |             |                 |   |  |                       |  |                  |          |  |                |            |  |   |            |      |        |            |
| IV. CLP Deliverable V. EDD     | Report                                 | Pro         | vide FAX Re  | sults  |              |                 |                   |                      |             |                 |   |  |                       |  |                  |          |  |                |            |  |   |            |      |        |            |
|                                |  | - Ae        | equested Rep | ort Date   |              | <u></u>         | 2                 |                      |             |                 |   |  |                       |  |                  |          |  |                |            |  |   |            |      |        |            |
| RBLINQUISI                     | HED BY                                 | 100 09      | 00 -         | 1  | RECE         | y€o             | BY:               | 14                   | 13/         |                 | 192                                     | マン   | REL                   | INQU   | IISHE            | D BY:    |  |                |            |  |   | RE         | CEIV | ED BY  | :          |
| Signature                      | Date/Time                              | 501         | SIM          | ajure .  | <b>2</b>     | Po              | ale/jim           | ie /                 | 1 / C       | 37 6            | /                                       | nature   |                       |  | - Da             | te/Tim   | ne   |                |            | Signa  | ature                                   |            |      | Date   | /Time      |
| Printed Name                   | Firm                                   | <u>r</u>    | 一點           | d Name   | X            | 117 F           | rm<br>irm         | ( 0                  | //3         | -               | Prin                                    | ted N  | ame                   |  | Fii              | rm       |  |                |            | Printe   | ed Nar                                  | me         |      | Firm   |            |

## Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

| μ | ſ | ٠ | 1-11    |
|---|---|---|---------|
|   | ľ | _ | <u></u> |

| Client / Pro      | ject: W.   | Fibe       | l  |                 |  |              | _Servi    | ce Req       | uest $K\theta$ | 7(          | 2921             | []          |              |          |
|-------------------|--|------------|--|-----------------|--|--------------|-----------|--------------|----------------|-------------|------------------|-------------|--------------|----------|
| Received:         | 10   | 19/12      | Opened:  | 101             | 19/12  | В            | y:        | T            | Sech           |             |                  |             |              |          |
|                   | were received  | via?       | US Mail  | Fed Ex          | UPS  |              | DHL)      | GH           | GS .           | PDX         | Couries          | ·           | land De      | elivered |
| 2. Samples        | were received  | in: (siro  | ole) Co  | oler B          | ox   | Envel        | оре       | Othe         | 27             |             |                  |             | NA           |          |
| 3. Were <u>cu</u> | stody seals on   | coolers?   | N  | A 💬             | N  | If           | yes, how  | many         | and wher       | e?          | 15               | nt          |              |          |
| If presen         | t, were custody  | y seals ii | ntact?   | $\mathcal{Q}$   | N  |              |           |              | e they sig     | ned and d   | lated?           |             | $\otimes$    | N        |
| 4. Is shippe      | r's au-bill file   | d? If no   | t, record air                                    | -bill number:   | 23   | 85           | 32830     | 050          | · · · · · -    |             | <del></del> .    | NA          | Y            | (B)      |
|                   | <u> </u>   |            |  |                 | 01   |              | <u>-</u>  |              |                | <del></del> |                  | <del></del> | <del>.</del> |          |
| , -               | ature of Cooler  | 2          | n receipt (°                                     | C):             | 3.6  |              |           |              |                |             |                  |             |              |          |
| •                 | ature Blank  | 17:37      |  | _               | 4.1  |              |           |              |                |             |                  |             |              | ~        |
|                   | able, list Chain   |            |  |                 |  | <del></del>  |           |              |                |             |                  |             |              | -        |
| - N               | pers pr  | 40.79      | - B  |                 |  | · ·          | ,,,       | ,            | ~.             |             |                  | NA          |              | N        |
| _                 | nar hal used.  | G          | ris Bub  |                 | Gel Pac  |              | Wet Ic    |              | Sleeves        | Other_      |                  |             |              |          |
|                   | othes are The in   | 9          | 13° S  |                 |  |              | labie be  | elow.        |                |             |                  | NA          | Z<br>D       | N        |
|                   | sample Mels  |            | حمانا اعمد معوصيه                                | •               |  |              |           |              |                |             |                  |             | 80           | И        |
|                   | ample labels ar  |            | Carried States                                   | £4P.            |  |              | ne table  | Delow        |                |             |                  | 214         | 0            | N        |
|                   | 2. Were the correct types of bottles used for the tests indicated?  NA   NA   NA   NA   NA   NA   NA   NA  |            |  |                 |  |              |           |              |                |             |                  |             |              |          |
|                   | 3. Were all of the preserved bottles received at the lab with the appropriate pH? Indicate in the table below NA |            |  |                 |  |              |           |              |                |             |                  |             |              |          |
|                   |  |            |  |                 |  |              |           |              |                |             | N                |             |              |          |
|                   | Res negative?  | -          | 1103 1 0001700                                   | 1 11111 - 172 ( | nc 24mm  | 11010        | enne i ei |              | g monn co      | meetion.    |                  |             | Y            | N        |
| ,;                |  |            | <u> </u>   | •               |  | <del>.</del> |           | <del>.</del> | <del></del>    |             |                  | ٠٠.         | ·            |          |
| Sample            | ID on Bottle   |            | Samp   | ie ID on COC    |  |              | Sample    | e ID on      | Bottle         |             | Samp             | ie ID on    | COC          |          |
|                   |  |            |  |                 |  |              |           |              |                |             |                  |             |              |          |
|                   |  |            | <u> </u>   |                 |  |              |           |              |                |             | <del></del>      |             |              |          |
|                   |  |            | 1  |                 |  |              |           |              |                |             |                  |             |              | ···      |
|                   |  |            |  |                 |  |              |           |              |                |             |                  |             |              |          |
|                   | <del> </del>   |            | Bottle   |                 | Out of   | Head-        |           |              | Ì              |             |                  | Reagent     |              |          |
| मुख्य कि र        | Sample ID  |            | Count  | Bottle Type     | Temp   | space        | Broken    | Hq l         | . Reage        | ent la      | dded             | Numb        | er           | Initials |
| <del></del>       |  |            | <del> </del>                                     |                 | + -  |              |           | 1            | !              |             |                  |             |              |          |
|                   |  |            |  |                 | + +  |              |           | <u> </u>     |                |             |                  |             |              |          |
|                   | <del></del>  |            | 1  |                 | <del>                                     </del> |              |           |              |                |             | <del>-   -</del> |             |              |          |
|                   |  |            | <del>                                     </del> |                 | 1  |              |           |              |                |             | <del></del>      |             |              |          |
|                   |  |            |  |                 |  |              |           |              |                |             | <del></del>      | <del></del> |              |          |
|                   |  |            |  |                 |  |              |           |              |                | <del></del> |                  | <del></del> |              |          |
|                   |  |            |  | ·               |  | -1           |           |              | <del>-</del>   |             |                  |             | <del></del>  |          |
| 4 7 7 7           |  |            |  |                 |  |              | ·         |              |                | <del></del> |                  |             |              |          |
| 1aamonal No       | otes, Discrepa   | incies,    | & Kesoluti                                       | ons:            |  | <del></del>  |           | ····         |                | <del></del> |                  |             |              |          |
|                   | <del> </del>   |            | <del></del> -                                    |                 |  |              |           |              |                |             |                  |             | ~ B          |          |
|                   |  |            |  |                 |  |              |           | <del></del>  |                |             |                  | •           | 114          |          |
|                   |  |            |  |                 |  |              |           |              |                |             | Pag              | p I of      | . 7          | 2        |

| Columbia<br>Analytical   |                                 | CHAIN  | OF CU                  | STODY  |  | SR#:  |                  |  |  |
|--|---------------------------------|--|------------------------|--|--|---|------------------|--|--|
| Services NC  | 7 South 13th Ave. • Kelso, WA 9 | 98626 • (360) 577  | -7222 • (800) 695-7    | 7222x07 • FAX (360) 636-10                       | PAGE   | OF C  | OOC #            |  |  |
| All Carpidy co - Owned Company   | TOEMWATER                       |  | 777                    | 0////  | 79///  | \(\frac{\chi_0}{\chi_0}\)\(\frac{\chi_0}{\chi_  | 7/7/             |  |  |
| PROJECT MANAGER LARLY GENTIL   | E-LFPPI                         |  |                        |  |  |   | / / / /          |  |  |
| COMPANY/ADURESS 59 DI EAST   | MARGINAL WAY S                  | <u>o.</u> [ [ ]  |                        |  |  | \$\begin{align*} \begin{align*} \begi | ' / / /          |  |  |
| CITYISTATE/ZIP SCIATTLE, WA  | 4. 98134                        | CONTAINERS   | 625 C                  |  | 300 SIM SIM SI SI SIM SI   | 1   | / / /            |  |  |
| E-MAIL ADDRESS 1 rgentile @ long!  | fibre.com                       |  |                        |  | PAHS 8310 CS (See 18 19 19 19 19 19 19 19 19 19 19 19 19 19  |   |                  |  |  |
| PHONE 2db-762-7170 SAMPLER'S SIGNATURE   | FAX206-767-2442                 |  |                        |  | PAHS 8310, CAMERS TOWN CONTROL OF THE STORY CONTROL |   | / / /            |  |  |
|  |                                 | NUMBER   | 8 8 8 8                |  | A LE SE  | [86] 8 / / /  | REMARKS          |  |  |
| SAMPLE I.D. DATE   | TIME LAB I.D. MATRIX            | / <del>&gt;</del> /: /9  | 128/4.8/2              |  | 1 20 0 19/15   |   | / REIWIANNS      |  |  |
| 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7  | /300                            | - 10 mg/m / 10 m | <del></del>            |  | <del></del>  |   | TEST COL         |  |  |
|  | 1300                            | 0.50   |                        | <del>                                     </del> |  |   | TEST LOW         |  |  |
| ROSE DRAW# 3 /30/07  | 1300                            |  |                        |  |  | -   | TURBIDITY        |  |  |
|  |                                 | 4  |                        |  |  |   |                  |  |  |
|  |                                 |  |                        |  |  |   |                  |  |  |
|  |                                 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |                        |  |  |   |                  |  |  |
|  |                                 | 3.4  |                        |  |  |   |                  |  |  |
|  |                                 | 34.4<br>182.32   |                        |  |  |   |                  |  |  |
|  |                                 |  |                        |  |  |   |                  |  |  |
|  |                                 |  |                        |  |  |   |                  |  |  |
| REPORT REQUIREMENTS  | INVOICE INFORMATION             | Circle whi   | ch metals are to be a  | nalyzed:   |  |   |                  |  |  |
| I. Routine Report: Method  | P.O. #<br>Bill To:              | Total M  | letals: Al As Sb       | Ba Be B Ca Cd Co                                 | Cr Cu Fe Pb Mg Mn  | Mo Ni K Ag Na Se  | Sr Tl Sn V Zn Hg |  |  |
| Blank, Surrogate, as   | Dili 10.                        | Dissolved I  | Metals: Al As Sb       | Ba Be B Ca Cd Co                                 | Cr Cu Fe Pb Mg Mn  | Mo Ni K Ag Na Se  | Sr Ti Sn V Zn Hg |  |  |
| required   |                                 |  | TE STATE HYDR          | OCARBON PROCEDURE                                | : AK CA WI NORT  | HWEST OTHER:  | (CIRCLE ONE)     |  |  |
| II. Report Dup., MS, MSD as required   | TURNAROUND REQUIREM             | J 3/ 201A  | L INSTRUCTIONS         |  |  | ri  |                  |  |  |
| III. Data Validation Report  | 24 hr48 hr5 Day                 |  | Zat For                | _2rC   |  | The file  |                  |  |  |
| (includes all raw data)  | Standard (10-15 working         | days)  | EST                    |  |  | 11  |                  |  |  |
| IV. CLP Deliverable Report   | Provide FAX Results             |  |                        |  | 477 3  |   |                  |  |  |
| V. EDD   |                                 |  |                        |  |  |   |                  |  |  |
| Requested Report Date  |                                 |  | ·                      | 1  |  |   |                  |  |  |
| RECIPION OF THE PROPERTY OF TH |                                 |  | EIVED BY: RELINQUISHED |  |  | BY: RECEIVED BY:  |                  |  |  |
| Signature Date/Time  | Signature                       | Date/  | Time                   | Signalure  | Date/Time  | Signature   | Date/Time        |  |  |
| Printed Name Firm  | Printed Name                    | Firm   |                        | Printed Name                                     | Firm   | Printed Name  | Firm             |  |  |

RCOC #1 06/03

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

| MONITORING PERIOD  | for (year/quarter):   | Jan/Feb/        | Mar Apr/Ma   | y/Jun Jul         | /Aug/Sep O    | ct/Nov/Dec     |  |  |
|--|---|-----------------|--|-------------------|---------------|----------------|--|--|
| Facilit  | ty/Site Information   |                 |  | Mailing Inf       | ormation      |                |  |  |
| LONGVIEW FIBRE S<br>Location: 5901 E MAI<br>County: KING |   |                 | LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411 |                   |               |                |  |  |
| have s <mark>uspended</mark> samp                        | harge Monitoring Repo<br>ling because of consist<br>Please read the instructi | ent attainment  | of benchmark v   | alues, mark tl    |               |                |  |  |
| Discharge Point  | POOF DRAID 7  | re ClarFA       | u 441  |                   |               |                |  |  |
| There was no qua   | lifying storm event th  | is quarter so r | no values are e  | ntered belov      | v (see explan | ation)         |  |  |
| Quarterly Monitoring                                     | parterly Monitoring   |                 | MAXIMUM  | UNITS             | Sample Type   | Events Sampled |  |  |
| Turbidity  | Consistent Attainment   | 2.0             |  | NTU               | GRAB          |                |  |  |
| рН   | Consistent Attainment   | 7.16            |  | Standard<br>Units |               |                |  |  |
| Zinc (total)   | Consistent Attainment   | 113             |  | μg∕L              |               |                |  |  |
| Oil & Grease   | Oil & Grease Consistent Attainment  |                 |  | mg/L              | Grab          |                |  |  |
| Monitoring associate                                     | ed with impaired wate   | erbodies:       |  |                   |               |                |  |  |
| Discharge Point  | POCEDRAIN.  | TO CLOTE        | xu 401   |                   |               |                |  |  |
| There was no qua   | llifying storm event th   | is quarter so r | no values are e  | ntered belov      | v (see explan | ation)         |  |  |
| Quarterly Monitoring                                     |   | AVERAGE         | MAXIMUM  | UNITS             | Sample Type   | Events Sampled |  |  |
| рН   | Consistent Attainment   | 7.16            |  | Standard<br>Units | GRAB          |                |  |  |
| Solids, Total<br>Suspended                               | Consistent Attainment   |                 |  | mg/L              |               |                |  |  |

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS DIMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (PENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO \$10,000,00 AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

PL. BRICL OK. B. J. B. B. B. J. B. B. B. J. B. J. B. J. B. J. B. B.

#### INSTRUCTIONS

If you have more than one discharge point where you are sampling, you must submit a separate Discharge Monitoring Report (DMR) for each sampling location. You must submit the DMR every quarter, no later than 45 days after the end of each quarter (see below):

First Quarter (January, February, March): Not later than May 15 · Second Quarter (April, May, June): Not later than August 14 Third Quarter (July, August, September): Not later than November 14 Fourth Quarter (October, November, December): Not later than February 14

- 1. **Permit Number:** Make sure the permit number listed at the top of the Discharge Monitoring Report (DMR) is the
- 2. Monitoring Period: Complete the "Monitoring Period" information by writing in the year in which the sample was taken and checking the appropriate box.
- 3. Company/Facility Information: The company name, mailing address, facility name, facility location, and facility county information are already entered. The company name and address is the where you (the Permittee) have told Ecology to mail information about the industrial stormwater general permit. The facility name, location, and county is information about the site (location) that is covered by the permit. The company name and facility name may be the same. If any of the information is incorrect or if it changes, you must notify Ecology and change it on the DMR.
- 4. Discharge Point: In your monitoring plan you identified all points of discharge from your site and which discharge point or points you would sample. You write the same name or identifier here at "Discharge Point" as you used in your monitoring plan.
- 5. No Qualifying Storm Check Box: If you were not able to obtain a sample this quarter, you mark this box. At the bottom of the form you must then provide an explanation or comment. It can be as simple as "There were no storm events that occurred during normal working hours." or there may be other circumstances such as "Site was inactive during the entire quarter."
- 6. Consistent Attainment Check Box: For each listed pollutant, if you have been at or below benchmark values (see table on next page) for eight consecutive quarters, you can suspend analysis for the remainder of this permit but you must submit the DMR and mark this box.
- 7. Reporting Values: Write in the value (the number you measured or the lab supplied) for each listed pollutant in the column marked "Maximum".
  - a. More than one event sampled: You are only required to take one stormwater sample each quarter. If you do take samples at more than one storm event during the quarter then you must indicate how many events were sampled in the "events sampled" column.
  - b. Average: If you sampled more than one storm event, you must enter values under both the "Average" and "Maximum" columns. Enter the highest value under "Maximum" (this works for pH too) and the average value of your samples under "Average" (for pH enter the lowest value under "Average").
- 8. Units: Do not change the units but you must be careful to check the values that you are entering. Oil and Grease must be in milligrams per liter (mg/L, parts per million) and zinc in micrograms per liter (µg/L, parts per billion). Turbidity must be in nephelometric turbidity units (NTU) and pH must be between 0 and 14 standard units. If you have any questions, contact your lab.
- 9. Sample Type: This will typically be "grab" meaning you take a single, one-time sample and have it analyzed. Oil & Grease must be a grab sample. The permit allows composite samples for the other pollutants.
- 10. Signature Box: The DMR must be properly signed and dated. Only someone with signature authority as identified by permit general condition G17 (see next page) is authorized to sign the DMR. The DMR will be returned to you if there is any question whether or not the signature is an original or whether that person has authority to sign the DMR.

Contact: Joyce Smith (360) 407-6858 11. Mail To: Joyce M. Smith Industrial Stormwater Permit Coordinator Washington State Dept. of Ecology PO Box 47696

Olympia, WA 98504-7696

Internet Information:

http://www.ecy.wa.gov/programs/wq/stormwater/

josm@ecy.wa.gov

### **Additional Information From the Permit**

#### Benchmark Values:

The Permittee may suspend stormwater sampling and analysis for turbidity, pH, zinc, and petroleum based on consistent attainment of benchmark values. Consistent attainment is defined as eight consecutive quarters (any quarter with no stormwater discharge is not counted) where the reported values are equal to or less than the benchmark values. For pH equal to or less than the benchmark values means that the pH did not exceed 9 and was not less than 6.

Benchmark values are not water quality standards and are not permit limits. They are indicator values. Values at or below benchmark are considered unlikely to cause a water quality violation.

| Parameter                  | Benchmark Value |
|----------------------------|-----------------|
| Turbidity                  | 25 NTU          |
| pH                         | 6 – 9 SU        |
| Total Zinc                 | 117 μg/L        |
| Petroleum - Oil and Grease | 15 mg/L         |

## G17. Signatory Requirements

All applications, reports, or information submitted to Ecology shall be signed and certified.

- A. In the case of a municipal, State or other public facility, all permit applications shall be signed by a principal executive officer or ranking elected official. In the case of a corporation, partnership, or sole proprietorship, all permit applications shall be signed by either a principal executive officer of at least the level of vice president of a corporation, a general partner of a partnership, or the proprietor of a sole proprietorship.
- B. All reports required by this permit and other information requested by Ecology shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - 1. The authorization is made in writing by a person described above and submitted to Ecology.
  - 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- C. Changes to authorization. If an authorization under paragraph B.2 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph B.2 above must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.

## Larry R. Gentile

From:

Mail Delivery Subsystem [MAILER-DAEMON@longfibre.com]

Sent:

Thursday, August 23, 2007 7:48 AM

To:

Irgentile@longfibre.com

Subject:

Returned mail: see transcript for details

Attachments:

<No Subject>



<No Subject>

The original message was received at Thu, 23 Aug 2007 07:46:57 -0700 (PDT) from f5snat.longfibre.com [10.254.7.76]

---- The following addresses had permanent fatal errors ---- <josm@ecy.wa.gov> (reason: 550 Mailbox unavailable or access denied - <josm@ecy.wa.gov>)

. ---- Transcript of session follows ---- .... when talking to ESMTP. while trying to contact ecymxlcy00.ecy.wa.gov.:
>>> RCPT To:<josm@ecy.wa.gov> NOTIFY=FAILURE,DELAY
<<< 550 Mailbox unavailable or access denied - <josm@ecy.wa.gov> 550 5.1.1
<josm@ecy.wa.gov>... User unknown

HARD COPY INTO MAIL
8-23-07

## Larry R. Gentile

From:

Larry R. Gentile [Irgentile@longfibre.com]

Sent:

Thursday, August 23, 2007 7:46 AM

To:

'josm@ecy.wa.gov'

Attachments: StormWater DMR 2nd qtr 2007.pdf

Good Morning. I am the one who will be taking over Mike Anderson's duties regarding the Environmental program here. Unfortunately i was somewhat 'thrown' into the project but am quickly 'catching up'! Attached is the 2nd qtr dmr in pdf format. I trust that will work for you however if you prefer another form of transmission of the document i can accomodate that as well. Just let me know your needs in this regard.

Sincerely,



June 6, 2007

Analytical Report for Service Request No: K0703784

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on May 04, 2007. For your reference, these analyses have been assigned our service request number K0703784.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/lb

Page 1 of

45 € 5 € 1

NELAP Accredited

ACIL Seal of Excellence Award

& 100% Recycled

### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

### Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA)
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

00003

# Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

| Program                | Number      |
|------------------------|-------------|
| Alaska DEC UST         | UST-040     |
| Arizona DHS            | AZ0339      |
| Arkansas - DEQ         | 88-0637     |
| California DHS         | 2286        |
| Colorado DPHE          | -           |
| Florida DOH            | E87412      |
| Hawaii DOH             | -           |
| Idaho DHW              | -           |
| Indiana DOH            | C-WA-01     |
| Louisiana DEQ          | 3016        |
| Louisiana DHH          | LA050010    |
| Maine DHS              | WA0035      |
| Michigan DEQ           | 9949        |
| Minnesota DOH          | 053-999-368 |
| Montana DPHHS          | CERT0047    |
| Nevada DEP             | WA35        |
| New Jersey DEP         | WA005       |
| New Mexico ED          | -           |
| North Carolina DWQ     | 605         |
| Oklahoma DEQ           | 9801        |
| Oregon - DHS           | WA200001    |
| South Carolina DHEC    | 61002       |
| Utah DOH               | COLU        |
| Washington DOE         | C1203       |
| Wisconsin DNR          | 998386840   |
| Wyoming (EPA Region 8) | -           |







Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Sample Matrix:

Project Number: NA

Seattle Stormwater

Water

Service Request: K0703784

Date Collected: 05/02/07

Date Received: 05/04/07

pН

MRL

Analysis Method:

SM 4500-H+B

Test Notes:

Sample Name

Dilution Factor

Date/Time Analyzed

Result Result Notes

Roof Drain

K0703784-001

Lab Code

05/05/07 15:59

Units: pH Units

Basis: NA

7.16

SM

Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

00005

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Seattle Stormwater

Project Name: Seat Project Number: NA

Sample Matrix: Water

Service Request: K0703784

Date Collected: 05/02/07

Date Received: 05/04/07

Turbidity

Analysis Method:

180.1

Test Notes:

Units: NTU

Basis: NA

| Sample Name                | Lab Code                    | MRL        | Dilution<br>Factor | Date/Time<br>Analyzed            | Result    | Result<br>Notes |
|----------------------------|-----------------------------|------------|--------------------|----------------------------------|-----------|-----------------|
| Roof Drain<br>Method Blank | K0703784-001<br>K0703784-MB | 0.2<br>0.2 | 1                  | 05/04/07 14:35<br>05/04/07 14:35 | 2.0<br>ND |                 |

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Project No.:

NA

Service Request: K0703784

Sample Name:

Roof Drain Method Blank Lab Code:

K0703784-001 K0703784-MB

Comments:

Approved By:

Date: 6507

00008

### Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0703784

Project Name:

Seattle Stormwater

Date Collected: 05/02/07

Project Number: NA Sample Matrix : Water

Date Received: 05/04/07

Solids, Total Suspended (TSS)

Analysis Method:

SM 2540D

Units: mg/L Basis: NA

Test Notes:

Dilution Date Result Sample Name Lab Code MRL Factor Analyzed Notes Result Roof Drain 05/05/07 K0703784-001 5 ND Method Blank K0703784-MB 05/05/07 ND 5

Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

00007

SM

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:
Project No.:

Seattle Stormwater

Project N Matrix : NA Water Service Request: K0703784

Date Collected: 05/02/07 Date Received: 05/04/07 Date Extracted: 05/23/07

Total Metals Units: ug/L (ppb)

|              | Analyte:                | Copper   | Lead     | Zinc     |
|--------------|-------------------------|----------|----------|----------|
|              | EPA Method:             | 6010B    | 7421     | 6010B    |
|              | Method Reporting Limit: | 10       | 2.0      | 10       |
|              | Date Analyzed:          | 05/24/07 | 05/29/07 | 05/24/07 |
| Sample Name  | Lab Code                |          |          |          |
| Roof Drain   | K0703784-001            | 21       | ND       | 113      |
| Method Blank | K0703784- <b>MB</b>     | ND       | ND       | ND       |

Comments:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0703784

Project:

Seattle Stormwater

Date Collected: 5/2/2007

Sample Matrix:

Water

Date Received: 5/4/2007

Oil and Grease

Sample Name:

Lab Code:

Roof Drain

Units: mg/L (ppm)

Result Notes

Test Notes:

K0703784-001

Basis: NA

Analyte

Method Method MRL

Analysis

1664

Dilution

Factor Extracted Analyzed Result

Date

Oil and Grease, Total (HEM)

**METHOD** 

Prep

5.0

5/15/2007 5/16/2007

Date

ND

Approved By: 1S22/020597p

K0703784phc kc1 - 1 5/18/2007

Date: 5/13/07

00010

LFC002385

Analytical Report

Client:

Project:

Sample Matrix:

Longview Fibre Paper & Packaging Inc

Seattle Stormwater

Water

Service Request: K0703784

Date Collected: NA Date Received: NA

Oil and Grease

Sample Name:

Lab Code: Test Notes: Method Blank K070515-WB

Units: mg/L (ppm)

Basis: NA

Analyte

Prep Method

Analysis Method MRL

Factor Extracted Analyzed Result

Date

Result Notes

Oil and Grease, Total (HEM)

METHOD

1664 5.0

Dilution-

5/15/2007 . 5/15/2007

Date

ND

Approved By: 1522/020597p

Page No..

00011

K0703784phc kc1 - MB 5/18/2007

LFC002386

# Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

| Cli            | ent / Project:        | Sentily             |                |               |           |           | Service    | Requ    | est <i>K07</i>  | 1378   | /            |                    |          |
|----------------|-----------------------|---------------------|----------------|---------------|-----------|-----------|------------|---------|-----------------|--|--------------|--------------------|----------|
| Red            | ceived:               | 5/4/07              | Opened:_       | 5/4           | lor       | _ Ву      |            | The     | d               |  |              |                    |          |
| 1.             | Samples were r        | eceived via?        | US Mail        | Fed Ex        | UPS       | Ø         | THL C      | GH      | GS PD           | X Cour   | rier Ha      | and Del            | ivered   |
| 2.             | Samples were r        | eceived in: (circl  | e) 🚾           | ler Bos       | x E       | nvelo     | pe         | Other   |                 |  |              | NA                 |          |
| 3.             | Were <u>custody</u> s | seals on coolers?   | NA             |               | N         | If y      | es, how i  | nany a  | nd where?       | 1-81   | des          |                    |          |
|                | If present, were      | custody seals in    | tact?          |               | N         | ı         | f present  | , were  | they signed a   |  |              | Ø)                 | N        |
| 4.             | Is shipper's air-     | -bill filed? If not | record air-t   | oill number:_ |           |           |            | -       |                 |  | _ NA         | Y                  | N        |
| 5.             | Temperature of        | of cooler(s) upon   | receipt (°C    | ):            | 26        |           |            |         |                 |  |              |                    |          |
|                | Temperaturel          | K 2 6 4 12          | • `            |               | .3.9      |           |            |         |                 |  |              |                    | _        |
| 6.             | ARON TO THE W         | st Chain of Custo   | dy Numbers     | <del></del>   |           |           |            |         |                 |  |              |                    | _        |
| 7.             |                       | apers properly fil  |                |               | )?        |           |            |         |                 |  | NA           | <b>©</b>           | N        |
| 8.             | Packing materia       |                     |                | le Wrap       |           | (2)       | Wet Ice    | Si      | leeves Oi       | lier   | •            |                    |          |
| 9.             | Did all bottles       | arrive in good co   | ondition (ur   | nbroken)? /   | ndicate   | in the    | table bel  | ow.     |                 |  |              | 0                  | N        |
| 10.            | Were all bottle       | labels complete (   | (i.e analysis, | preservation  | , etc.)?  |           |            |         |                 |  | •            | $\wp$              | N        |
| 11.            | Did all bottle la     | abels and tags agr  | ee with cust   | ody papers?   | Indicate  | in the    | e table be | elow    |                 |  |              | D                  | N        |
| 12.            | Were the corr         | ect types of bott   | les used for   | the tests ind | icated?   |           |            |         |                 |  |              | $\boldsymbol{\wp}$ | N        |
| 13.            | Were all of the       | preserved bottles   | received at    | the lab with  | the appro | priate    | pH? In     | dicate  | in the table b  | elow   | NA           | Ø                  | N        |
| 14,            | Were VOA via          | ls and 1631 Merc    | ury bottles o  | checked for a | bsence o  | f air b   | ubbles?    | Indica  | ite in the tabl | e below.   |              | Y                  | Ν        |
| 15.            | Are CWA Mic           | crobiology sampl    | les received   | with >1/2 th  | e 24hr.   | hold t    | ime rem    | aining  | g from collec   | tion?  | (VA)         | Y                  | N        |
| 16.            | Was C12/Res n         | negative?           |                |               |           |           |            |         |                 |  | (IA)         | Y                  | N        |
| 1              | Sample ID on          | Bottle              | Sampl          | e ID on COC   |           |           | Sample     | ID on t | Bottle I        | Artis  | ample ID on  | COC                |          |
|                | ar. Cample 12 on      |                     | , some         |               |           |           | -Cumpic    | 10 011  | Jour .          |  | ample 15 on  | , 000              | J. 100   |
|                |                       |                     |                |               | •         |           |            |         |                 |  |              |                    |          |
|                |                       |                     |                |               |           | L.        |            |         | ·               |  |              |                    |          |
|                |                       |                     |                |               |           | <u> L</u> |            |         |                 |  |              |                    |          |
| - <u> </u>     | and the second        | wie.                | Bottle         | . :.          | Out of I  | load-     |            | ;       |                 | * Volume   | Peagan       |                    | 3193     |
| (1.2)<br>(1.2) | Samp                  | ole ID              | Bottle         | Bottle Type   | Temp      | pace      | Broken     | рΗ      | Reagent         | Volume<br>added                                  | Numb         | er                 | Initials |
|                | <del></del>           |                     |                |               |           |           |            |         |                 | <del>-                                    </del> |              |                    |          |
|                |                       |                     |                |               |           |           |            |         |                 |  |              |                    |          |
| _              |                       |                     |                |               |           |           |            |         |                 |  |              |                    |          |
|                |                       |                     |                |               |           |           |            |         | -               |  |              |                    |          |
|                |                       |                     | -              | <del></del>   |           |           |            |         |                 |  | <del> </del> |                    | <u>·</u> |
|                |                       |                     |                |               |           | ¦         |            |         |                 | -  |              |                    |          |
|                |                       |                     | _              |               |           |           |            |         | <u> </u>        |  |              |                    |          |
|                |                       | n.                  |                |               | I         |           |            |         | L <del></del>   |  | <u> </u>     |                    |          |
| !dd            | itional Notes,        | Discrepancies,      | & Resoluti     | ons:          |           |           |            |         |                 | <del></del>                                      |              | 000                | )13      |
|                |                       |                     |                |               |           |           |            |         |                 |  |              |                    |          |
|                |                       |                     |                |               |           |           |            |         |                 |  | Page 1 o     | <u>f:</u> I        | 2        |

| Services Management 1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068 PAGE OF COC #   |                   |
|--|-------------------|
| ARE INDIPOSES   COLORAN I DATE   CAPACIDATE   COLORAN I DATE   CAPACIDATE   COLORAN I DATE   CAPACIDATE   CAP | 2784              |
| PROJECT MANAGER  PROJECT MANAGER  PROJECT MANAGER  COMPANY/SOPIES  COMPANY/SOP |                   |
| COMPANYMODIESS   FAST MARCINAL WAY S  SCHOOLST   FAST MARCINAL WAY S  CITYSTATEZIP  E-MAIL ADDRESS   CYCENTILE COM  PHONE - 762-7170   FAZEL - 767-2441   E  SAMPLETS SIGNATURE  PAMPLE 1.D. DATE TIME LABI.D. MATRIX   E  SAMPLET DEAL S/2/01 06:30  #2 CUF DEAL S/2/01 06:30  #2 CUF DEAL S/2/01 06:30   | <b>Sapt</b>       |
| SCATTLE WA 98134  EMALADORESS   rejective of the com   10   10   10   10   10   10   10   1  | / <u>B</u>        |
| SAMPLE 15 CONTINUE OF TIME LAB I.D. MATRIX \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 5  | , ./ <b>-</b> /-  |
| SAMPLE 15 CONTINUE OF TIME LAB I.D. MATRIX \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 5  |                   |
| SAMPLE 15 CONTINUE OF TIME LAB I.D. MATRIX \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 5  |                   |
| #1 Kat RAIN 5/2/01 0630  #2 Kat RAIN 5/2/01 0630   | /                 |
| #1 Kat RAIN 5/2/01 0630  #2 Kat RAIN 5/2/01 0630   | REMARKS           |
| # 2 Cat Dean 7/2/01 0630   | 72-174CZ          |
| 12 5 VILT (NAIN 72/07 0635)  | TEST FOR          |
|  | Est Fol<br>Gladat |
|  | <u></u> .         |
|  |                   |
|  |                   |
|  |                   |
|  |                   |
|  |                   |
| REPORT REQUIREMENTS INVOICE INFORMATION Circle which metals are to be analyzed:  |                   |
| P.O. # I. Routine Report: Method BIII To: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sr  | V Zn Hg           |
| Blank, Surrogate, as Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr TI Sr required  |                   |
| II. Report Dup., MS, MSD as TURNAROUND REQUIREMENTS SPECIAL INSTRUCTIONS/COMMENTS:   | LE ONE)           |
| required   |                   |
|  |                   |
| IV. CLP Deliverable Report Provide FAX Results   |                   |
| V. EDD   |                   |
| RELINQUISHED BY: RECEIVED BY: RECEIVED BY:   |                   |
| Signature Date/Tipers 27; Signature Date/Time Signature Date/Time Signature Date/Time  |                   |
| Signature Date/Time Signature Date/Time Signature Date/Time Date/T | ine.              |

RCOC #1 06/03

Firm

# Columbia Analytical Services, Inc. General Terms and Conditions

Laboratory Services • 1-800-695-7222

- 1. These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory ("LAB") and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB, specifically rejects all additional, inconsistent or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to LAB. The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state from which services are procured.
- 2. Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services; obtain findings and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.
- At LAB sole discretion, preliminary results may be given in advance of the laboratory report. Such preliminary results are tentative, subject to confirmation and final review by LAB. Client's use of preliminary results in any manner shall be at Client's sole risk.
- 3. Scope and Compensation. LAB agrees to perform the services described in the proposal or agreement to which these Terms and Conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1 1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable autorney fees if such expense is incurred. The prices, unless stated, do not include any sales, use or other taxes. Such taxes will be added to invoice prices when required. LAB reserves the right to require payment prior to release of data. Until such time as Client invoices are paid in full, LAB has no obligation, and will not defend, reproduce, return, or supplement data results.

- 4. Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule, or on verbal quotations agreed to in writing by the parties. Unless specifically indicated on the written confirmation of quotation, analytical turnaround times are not guaranteed. The minimum charge will be \$100.00 unless otherwise noted.
- 5. Methods. Where applicable, LAB will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), State Agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC). Standard Methods for the Examination of Water and Wastewater, or other recognized methodologies. LAB reserves the right to deviate from these methodologies, if necessary or appropriate, due to the nature or composition of the sample or otherwise, based on the reasonable judgment of LAB. Deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or LAB's standard operating procedures.
- 6. Limitations of Liability. In the event of any error, omission or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at us own expense, and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no hability, obligation or responsibility of any kind for losses, costs, expenses or other damages (including but not limited to any special, indirect, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its elients, and LAB is in no way responsible for the use of such results by clients or third parties. All results should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of the results.

- 7. Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance which is to be delivered to LAB will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.
- 8. Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss of or damage to such sample remains

with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from LAB's premises.

LAB will use its best efforts to arrange for the shipment of specially prepared sample bottles, sampling instructions per Client instruction by the readily available, least cost method. Any other shipment arrangements will be at Client's expense.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis, unless modified by applicable state or federal laws. Client will be required to give to LAB written instructions concerning disposal of these samples.

- LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample which, in the sole judgment of LAB, (a) is of unsuitable volume. (b) may be or become unsuitable for, or may pose a risk in handling, transport or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Chent or (c) has been delivered to the LAB more than 72 hours after sampling or if one half or more of the recommended holding time for the analysis has langed.
- Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort, including negligence.
- 10. Data Deliverables. Where specifically requested by Client LAB agrees to produce electronic data representing services performed hereunder, subject to the following specific understanding between the parties: LAB agrees to supply Client with electronic data as mutually defined, using an agreed medium. Client recognizes that LAB is not a software consultant, manufacturer or reseller; any transfer of electronic data pursuant to services provided by LAB is an accommodation to and strictly for the convenience of the client who is solely liable for the choice and maintenance of the medium utilized. Electronic data provided under this agreement is not deemed to be the project deliverable for the purpose of fulfilling obligations under the Agreement. The provision of electronic data does not in any way modify the intention of the parties that the Client rely on the written or hard copy form of the deliverable

Except with regard to any limited warranty as specifically set forth below, LAB disclaims and excludes all warranties express or implied with regard to the creation. transmittal or use of electronic data hereunder. The limited warranty in this Agreement replaces all other warranties, express or implied, including any warranties of merchantability or fitness for a particular purpose. Professional warranties extend to written or hard copy deliverables only and do not extend to electronic data supplied to Client. Professional warranties in the Agreement which extend to written or hard copy deliverables shall be undisturbed by this Amendment. LAB's liability for medium failure shall be limited to replacement of the electronic data with a hard copy for a period of thirty days from the date of delivery. LAB's electronic data transfer is derived in part from or is created using third party software, and no such third party warrants or assumes any liability regarding use of or undertakes to provide support information relating to LAB's electronic data. LAB will utilize anti-virus programs on a best efforts basis in preparation of the electronic data transfer, but LAB makes no warranty as to the effectiveness of such screening. LAB will also use its best efforts to ensure that its electronic data will meet all criteria as specified by Client, including criteria regarding date/time data, if, and when, included; but LAB makes no warranty as to the appropriateness of the client specified criteria by accepting the same.

In addition to indemnities contained in the underlying agreement between LAB and Client, Client shall hold LAB harmless from any claims, suits or liability arising from or related to electronic data supplied pursuant to this Agreement. Any reuse of original or altered files by Client shall be at Client's risk and without liability or responsibility to LAB, but shall entitle LAB to additional compensation for such unauthorized reuse. In no event will LAB's liability for electronic data include any special, incidental or consequential damages, whether or not LAB has knowledge of the potential for loss or damage.

11. Force Majeure. LAB shall have no responsibility or hability to the Client for any failure or delay in performance by LAB which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

# SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter):

2007 year



Apr/May/Jun

Jul/Aug/Sep

Oct/Nov/Dec

Facility/Site Information

LONGVIEW FIBRE SEATTLE Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

**Mailing Information** 

LONGVIEW FIBRE COMPANY PO BOX 639

LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point      | Roof drain to          | outfall C        | 1 6             |                   |               |                |
|----------------------|------------------------|------------------|-----------------|-------------------|---------------|----------------|
| There was no qual    | lifying storm event th | nis quarter so r | no values are e | ntered belov      | v (see explan | ation)         |
| Quarterly Monitoring |                        | AVERAGE          | MAXIMUM         | UNITS             | Sample Type   | Events Sampled |
| Turbidity            | Consistent Attainment  | 3.0              |                 | NTU               | Grab          | /              |
| pН                   | Consistent Attainment  | 6.94             |                 | Standard<br>Units | 11            | 1              |
| Zinc (total)         | Consistent Attainment  | 102              |                 | μg/L              | //            |                |
| Oil & Grease         | Consistent Attainment  | ND               |                 | mg/L              | Grab          | $\prod_{i}$    |

Monitoring associated with impaired waterbodies:

| Discharge Point   | Roof drain to         | outfall | 001     |                   |             |                |  |  |  |  |  |
|---|-----------------------|---------|---------|-------------------|-------------|----------------|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |                       |         |         |                   |             |                |  |  |  |  |  |
| Quarterly Monitoring  |                       | AVERAGE | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |
| рН  | Consistent Attainment | 6.94    |         | Standard<br>Units | Grab        | 1              |  |  |  |  |  |
| Solids, Total<br>Suspended  | Consistent Attainment |         |         | mg/L              |             |                |  |  |  |  |  |

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE IS USC; 1601 AND 33 USC § 1319. (PENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO \$10,000,00 AND OR HAXIMUM IMPRISONMENT OF BETWEEN \$12 MONTHS AND FIVE YEARS.)

P. L. BRILL VP PRODUCTION WEST COSTS.

NAMETITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)

DATE: MO DAY YEAR

206-762-7170

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TOTAL SUSPENDED SOLIDS NOT FESTED FOR AUTHORIZED AGENT

Total Suspended solids not fested for at Columbia Analytical. Samples fallen, but not fested

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0701931

Project Name:

Seattle Stormwater

Date Collected: 03/08/07

Project Number: NA Sample Matrix:

Water

Date Received: 03/09/07

Turbidity

Analysis Method:

180.1

Units: NTU Basis: NA

Test Notes:

Dilution Date/Time Result Notes Analyzed Sample Name Lab Code MRL **Factor** Result #1,2,3 Roof Drain 03/09/09 02:20 3.0 K0701931-001 0.2 1 ND Method Blank K0701931-MB 0.2 1 , 03/09/09 02:20

Analytical Report

Client:

Project Name:

Project Number: NA Sample Matrix: Water

Longview Fibre Paper & Packaging Inc Seattle Stormwater

Service Request: K0701931 Date Collected: 03/08/07

Date Received: 03/09/07

pН

Analysis Method:

150.1

Test Notes:

Units: pH Units Basis: NA

Dilution Date/Time Result Sample Name Lab Code Factor Analyzed Notes MRL Result #1,2,3 Roof Drain K0701931-001 03/05/07 6.94

00005

# **Analytical Report**

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Project No.: Matrix:

Water

NA

Service Request: K0701931

Date Collected: 03/08/07 Date Received: 03/09/07 Date Extracted: 03/19/07

Total Metals Units: ug/L (ppb)

Analyte:

Zinc

EPA Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

04/04/07

Sample Name

Lab Code

#1,2,3 Roof Drain

K0701931-001

102

Method Blank

K0701931-MB

ND

Comments:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0701931

Project:

Seattle Stormwater

Date Collected: 3/8/2007

Sample Matrix:

Water

Date Received: 3/9/2007

Oil and Grease

Sample Name:

#1,2,3 Roof Drain

Units: mg/L (ppm)

Lab Code:

K0701931-001

Basis: NA

Test Notes:

Analyte

Prep Analysis Method Method MRL

Dilution Date Date Factor Extracted Analyzed Result Result Notes

Oil and Grease, Total (HEM)

METHOD · 1664

5.0

3/13/2007 3/14/2007 . ND 1

Approved By: Leon

3/14/07

K0701931phc kc1 - 1 3/16/2007

Page No .

00069

Analytical Report

Client: Project: Longview Fibre Paper & Packaging Inc

Sample Matrix:

Seattle Stormwater

Water

Service Request: K0701931

Date Collected: NA

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code: Test Notes: K070313-WB

Basis NA

Analyte

Oil and Grease, Total (HEM)

Prep Method

**METHOD** 

Analysis Method MRL Dilution

Date Date Factor Extracted Analyzed Result Result Notes

1664 5.0 3/13/2007 - 3/14/2007.

Date: 3/18/07

Approved By. Slove Halther

K0701931phc.kc1 - MB 3/16/2007

00010

Columbia Analytical Services
1317 South 13th, Kelso, WA 98626
(360) 577-7222 FAX (360) 636-1068

# CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM STORMWATER WASHINGTON

| SR#    | 16070 1431 |  |
|--------|------------|--|
| PAGE . | •          |  |

| Mill: Seattle                    |           | PO #      | :             |                 |                        |           |                                 | . 0.4        |             |            | Analysis   | Request     | edi 🔭 👢 📚                       |  |
|----------------------------------|-----------|-----------|---------------|-----------------|------------------------|-----------|---------------------------------|--------------|-------------|------------|------------|-------------|---------------------------------|--|
| Project Manager: <u>Mike An</u>  | derson    |           | Pr            | oject: <u>S</u> | orm Water              |           | rs                              |              |             |            |            |             |                                 |  |
| Company/Address: _Longview       | Fiber 590 | l East Ma | rginal Wa     | y S. Phon       | e: _206)762-7170       | -         | Containers                      | i            |             |            |            | }           |                                 |  |
| City, State, Zip: Seattle WA 98  | 8,134<br> |           | FAX:          | 206)767-2       | 442                    |           | of C                            |              |             |            |            |             |                                 |  |
| Sampler's Signature: 11/1/       |           |           |               |                 |                        |           | ber                             |              |             | <u>5</u> . | .ase       |             |                                 |  |
| T                                |           | or compos |               |                 |                        | Sample    | Number                          |              | ICP/Zn      | Turbidity  | Oil/Grease |             |                                 |  |
| Sample 1.D.                      | Date      | Time      | Date          | op<br>Time      | LAB ID                 | Matrix    | Z                               | hЧ           | D D         | Tur        | Oil/       |             | REMARKS                         |  |
| #1 Roof drain                    | 3/8/2007  | 6am       |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
| #2 Roof drain                    | 3/8/2007  | 6aın      |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
| #3 Roof drain                    | 3/8/2007  | 6am       |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
|                                  |           |           |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
|                                  |           |           |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
|                                  |           |           |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
|                                  |           |           |               |                 |                        | •         |                                 |              |             |            |            |             |                                 |  |
|                                  |           |           |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
|                                  |           |           |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
|                                  | <u> </u>  |           |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
|                                  |           | _         |               |                 |                        |           |                                 |              |             |            |            |             |                                 |  |
| TURNAROUND                       |           |           |               | REPORT          |                        | Commen    | •                               |              |             |            | affest for | zinc and to | orbidity also, thank you Mike A |  |
| REQUIREMENTS 24 hr 5 da          | <b></b>   | , , ,     |               | REQUIREM        | ENTS<br>Viethod Blank, | * For gra | b samp                          | les, use sta | rt column's | s date and | time.      |             |                                 |  |
| X Standard (21 days)             | 'y        |           | Surrogate     | iii. Results, i | ricinou iriank,        |           | pH may be measured in the field |              |             |            |            |             |                                 |  |
| Provide FAX Preliminary Resul    | ts        | II. Q     | C Summary     | Report: MS,     | MSD as required        | 1         | Log Sort Yards may require BOD  |              |             |            |            |             |                                 |  |
| Requested Report Date: 3/26/07   |           | III. D    | ata Validatio | on Report (in   | cludes raw data)       |           |                                 |              |             |            |            |             |                                 |  |
| RELINQUISHED, BY: / RECEIVED BY: |           |           | 1/1/          |                 | REL                    | INQUISI   | TED BY:                         |              |             | RECEIV     | VED BY:    |             |                                 |  |
| $Akt A dul_{-}$                  |           |           | Signature     |                 | and flow               |           | Signa                           | iture:       |             |            |            | Signatur    | e:                              |  |
| Printed Name: Mike Anderson      |           |           | Printed N     | ame:            | age Sona               | ,         | Printe                          | ed Name:     |             |            |            | Printed 1   | Name:                           |  |
| Firm: Longview Fiber Paper &Pa   | ackaging  | -         | Firm:         | - ala           | (15                    | _         | Firm:                           |              |             |            |            | Firm:       | <del></del>                     |  |
| Date/Time: <u>3/8/07_2pm</u>     |           |           | Date/Time     | e: <u>99</u>    | 07 1018                | <u></u> _ | Date/                           | Time: _      |             |            |            | Date/Γin    | ne:                             |  |

# Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

| PC_ |  |
|-----|--|
|     |  |

| Client / Project:                      | BRE                               | Service Re                    | quest <i>K07(</i>  | DI 95           | /                     |            | <u></u>     |
|--|-----------------------------------|-------------------------------|--------------------|-----------------|-----------------------|------------|-------------|
| Received:                              | Opened: 3(9/07                    | By:                           | be                 |                 |                       | •          |             |
| 1. Samples were received via?          | US Mail & Eed F                   | UPS DHL                       | Courier H          | and Delive      | red                   |            |             |
| 2. Samples were received in: (circle   | - RABARE                          | Envelope Oth                  |                    |                 |                       | NA         |             |
| 3. Were custody seals on coolers?      | NA Ø N                            | If yes, how many              |                    | 1=              | IB                    |            |             |
| If present, were custody seals in      |                                   |                               | re they signed an  |                 | <u></u>               | (v)        | N           |
| 4. Is shipper's air-bill filed? If not |                                   |                               |                    |                 | NA                    | (V)        | N           |
| 10 ompper o an om mea. 11 not          | , record an bir hamber.           |                               |                    |                 | 1471                  |            | ,,,         |
| 5. Temperature of cooler(s) upon       | receipt (°C):                     |                               |                    |                 | <u> </u>              |            | ·           |
| Temperature Blank (°C):                | 10 4                              | 9                             | -                  |                 |                       |            | _           |
| 6. If applicable, list Chain of Custo  | dy Numbers:                       | <del></del>                   |                    |                 |                       |            |             |
| 7. Were custody papers properly fi     |                                   |                               |                    |                 | NA                    | 18)        | –<br>ท      |
| 8. Packing material used. Inser        |                                   | Packs Wet Ice                 | Sleeves Oth        | er              |                       |            |             |
| 9. Did all bottles arrive in good co   | ondition (unbroken)? <i>Indic</i> | ate in the table below.       |                    |                 |                       | P          | N           |
| 10. Were all bottle labels complete    |                                   |                               |                    |                 |                       | $\bigcirc$ | N           |
| 11. Did all bottle labels and tags agr | ee with custody papers? Indi      | cate in the table below       |                    |                 |                       | 8          | N           |
| 12. Were the correct types of bott     |                                   |                               |                    |                 |                       | (Y)        | N           |
| 13. Were all of the preserved bottles  | received at the lab with the a    | ppropriate pH? Indica         | te in the table be | low             | NA                    | Y          | N           |
| 14. Were VOA vials and 1631 Merc       |                                   |                               |                    |                 | (NA                   | Y          | N           |
| 15. Are CWA Microbiology samp          | les received with >1/2 the 24     | hr. hold time remaini         | ng from collecti   | on?             | THA \                 | Y          | N           |
| 16. Was C12/Res negative?              |                                   |                               |                    |                 | (VA)                  | Y          | N           |
|  |                                   |                               |                    | 1               | # <sub>1,</sub> 1, 1, | . , ,      |             |
| Sample ID on Bottle                    | Sample ID on COC                  | Sample ID o                   | n Bottle           | Sai             | mple ID on            | coc        | <del></del> |
|  |                                   |                               |                    | <del> </del>    |                       |            |             |
|  |                                   |                               |                    | <del> </del>    |                       |            |             |
|  |                                   |                               |                    | -               |                       |            |             |
|  |                                   |                               |                    | <u> </u>        |                       |            |             |
| Sample ID                              |                                   | of Head-<br>p space Broken pH | Reagent            | Volume<br>added | Reagent<br>Numb       | Lot        | Initials    |
| - Sample 15                            | Sount Bottle Type Ten             | ip space broken pri           | Reagent            | added           | NONE                  | <u> </u>   | Ittitiois   |
| · · · · · · · · · · · · · · · · · · ·  |                                   |                               |                    |                 |                       |            |             |
|  |                                   |                               |                    |                 |                       | j          |             |
|  |                                   |                               |                    |                 |                       |            |             |
|  |                                   |                               |                    |                 |                       |            |             |
|  |                                   |                               |                    |                 |                       |            |             |
|  |                                   |                               |                    |                 |                       |            |             |
|  |                                   |                               | J                  |                 |                       |            |             |
| Additional Notes, Discrepancies,       | & Resolutions                     |                               |                    |                 |                       |            |             |
|  |                                   |                               |                    |                 |                       |            |             |
|  | <del></del>                       |                               |                    |                 |                       |            |             |
|  |                                   |                               |                    |                 |                       |            |             |

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Project No.:

NA

Service Request: K0701931

Sample Name:

#1,2,3 Roof Drain Method Blank Lab Code:

K0701931-001 K0701931-MB

Comments:

Approved By:

THE CO

Date:

455

00067



April 6, 2007

Analytical Report for Service Request No: K0701931

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on March 09, 2007. For your reference, these analyses have been assigned our service request number K0701931.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace Ed Wallace

Project Chemist

EW/Imb

Page 1 of 1

. 1950 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981

**NELAP** Accredited

ACIL Seal of Excellence Award

🗗 100% Recycled

### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

### Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W. The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U . The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

  The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

. 00003

# Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

| Program                | Number      |
|------------------------|-------------|
| Alaska DEC UST         | UST-040     |
| Arizona DHS            | AZ0339      |
| Arkansas - DEQ         | 88-0637     |
| California DHS         | 2286        |
| Colorado DPHE          | -           |
| Florida DOH            | E87412      |
| Hawaii DOH             | -           |
| Idaho DHW              | -           |
| Indiana DOH            | C-WA-01     |
| Louisiana DEQ          | 3016        |
| Louisiana DHH          | LA050010    |
| Maine DHS              | WA0035      |
| Michigan DEQ           | 9949        |
| Minnesota DOH          | 053-999-368 |
| Montana DPHHS          | CERT0047    |
| Nevada DEP             | WA35        |
| New Jersey DEP         | WA005       |
| New Mexico ED          | -           |
| North Carolina DWQ     | 605         |
| Oklahoma DEQ           | 9801        |
| Oregon - DHS           | WA200001    |
| South Carolina DHEC    | 61002       |
| Utah DOH               | COLU        |
| Washington DOE         | C1203       |
| Wisconsin DNR          | 998386840   |
| Wyoming (EPA Region 8) | -           |







### SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter): 2004

Jan/Feb/Mar

Apr/May/Jun

Jul/Aug/Sep

Oct/Nov/Dec

| Facility/Site Information | Fac | ility | /Site | Inform | ation |
|---------------------------|-----|-------|-------|--------|-------|
|---------------------------|-----|-------|-------|--------|-------|

LONGVIEW FIBRE SEATTLE Location: 5901 E MARGINAL WAY S County: KING

Primary SIC Code: 2653

Mailing Information

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point Roof drain to outfall 001 |                         |                 |                 |                   |               |                |
|---|-------------------------|-----------------|-----------------|-------------------|---------------|----------------|
| There was no qua                          | alifying storm event th | is quarter so n | no values are e | ntered belov      | v (see explan | ation)         |
| Quarterly Monitoring                      |                         | AVERAGE         | MAXIMUM         | UNITS             | Sample Type   | Events Sampled |
| Turbidity                                 | Consistent Attainment   | 1,2             |                 | NTU               | Grab          |                |
| pН  | Consistent Attainment   | 5,21            |                 | Standard<br>Units | 71            | ( )            |
| Zinc (total)                              | Consistent Attainment   | 102             |                 | μg/L              | 7 (           | 11             |
| Oil & Grease                              | Consistent Attainment   | NO              |                 | mg/L              | Grab          | 11             |

Monitoring associated with impaired waterbodies:

| Discharge Point            |                        |                 |                 |                   |               |                |
|----------------------------|------------------------|-----------------|-----------------|-------------------|---------------|----------------|
| There was no qua           | lifying storm event th | is quarter so r | no values are e | ntered below      | v (see explan | ation)         |
| Quarterly Monitoring       |                        | AVERAGE         | MAXIMUM         | UNITS             | Sample Type   | Events Sampled |
| pН                         | Consistent Attainment  | 5,21            |                 | Standard<br>Units |               | /              |
| Solids, Total<br>Suspended | Consistent Attainment  |                 |                 | mg/L              |               |                |

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY PROUBLY OF THOSE DEPOSITE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, I BELIEVE THE SUBMITTED MFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, I BELIEVE THE SUBMITTED MFORMATION INCLUDING THE PROSSIBILITY OF FINE AND DIMPRISONMENT. SEE IS USC, I 1001 AND 31 USC, I 1319. (PENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO SIGNOGO AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

PL. BALL V. P. REDUCTION WEST REGION 1—22—07

NAME TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TO FAIL SUSPENDED SOLVED SOLVED

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0700158

Date Collected: 12/05/06

Project Name:

Seattle Stormwater

Project Number: NA

Sample Matrix: WATER

Date Received: 01/08/07

Turbidity

Analysis Method: 180.1

Units: NTU

Test Notes:

Basis: NA

| Sample Name                       | Lab Code                    | MRL ·      | Dilution<br>Factor | Date/Time<br>Analyzed            | Result    | Result<br>Notes |
|-----------------------------------|-----------------------------|------------|--------------------|----------------------------------|-----------|-----------------|
| #1,2,3 Roof Drain<br>Method Blank | K0700158-001<br>K0700158-MB | 0.2<br>0.2 | 1                  | 01/08/07 14:40<br>01/08/07 14:40 | 1.2<br>ND | X               |

Analytical Report

Client: Project Name: Longview Fibre Paper & Packaging Inc

Scattle Stormwater

Project Number: NA

Sample Matrix: WATER Service Request: K0700158

Date Collected: 12/05/06

Date Received: 01/08/07

pН

Analysis Method: 150.1

Test Notes:

Units: pH UNITS

Basis: NA

Lab Code

Dilution MRL

Date/Time

Result

Sample Name

Factor

Analyzed

Notes

#1,2,3 Roof Drain

K0700158-001

1

01/09/07 16:30

Result 5.21

Report By: EMihaila

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name: Project No.:

Seattle Stormwater

Service Request: K0700158 Date Collected: 12/05/06

Matrix:

Water

Date Received: 01/08/07
Date Extracted: 01/08/07

Total Metals

Sample Name:

#1,2,3 Roof Drain

Units: ug/L (ppb)
Basis: NA

Lab Code:

K0700158-001

| Analyte | Analysis Method | MRL | Date Analyzed | Sample<br>Result | Result<br>Notes |
|---------|-----------------|-----|---------------|------------------|-----------------|
| Copper  | 6010B           | 10  | 01/11/07      | ND               |                 |
| Lead    | 7421            | 2.0 | 01/09/07      | ND               |                 |
| Zinc    | 6010B           | 10  | 01/11/07      | 102              |                 |

Comments:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project:

Seattle Stormwater

Sample Matrix:

Water

Service Request: K0700158

Date Collected: 12/5/2006

Date Received: 1/8/2007

Oil and Grease

Sample Name:

#1,2,3 Roof Drain

Units: mg/L (ppm)

Lab Code: Test Notes: K0700158-001

Basis: NA

Analyte

Analysis Prep Method Method MRL Dilution Date Factor Extracted Analyzed Result

Date

Result Notes

Oil and Grease, Total (HEM)

METHOD 1664 5.0

1/12/2007 4/12/2007

Date: 1/5/07 Approved By:

KD70017Epincles - 1 1/13/2007

### Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0700158

Project:

Seattle Stormwater

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code: Test Notes: K070112-WB

Basis: NA

Prep Analysis Dilution Date Result

Analyte

Method Method MRL

Date Factor Extracted Analyzed Result

Notes

Oil and Grease; Total (HEM)

METHOD: 1664 ... .5.0 : ...

1/12/2007 1/12/2007 ND

1S22/020597p

Date: 1/5/07

K0700158phc.le1 - MB 1/15/2007

### **Analytical Report**

Client:

Longview Fibre Paper & Packaging Inc Seattle Stormwater

Project Name: Project No.:

Matrix:

Water

Service Request: K0700158
Date Collected: NA

Date Received: NA

Date Extracted: 01/08/07

Total Metals

Sample Name: Lab Code:

Method Blank

K0700158-MB

Units: ug/L (ppb)

Basis: NA

| Analyte | Analysis Method | MRL | Date Analyzed | Sample<br>Result | Result<br>Notes |
|---------|-----------------|-----|---------------|------------------|-----------------|
| Copper  | · 6010B         | 10  | 01/11/07      | ND               |                 |
| Lead    | 7421            | 2.0 | 01/09/07      | ND               |                 |
| Zinc    | 6010B           | 10  | 01/11/07      | ND               |                 |

Comments:

# - Cover Page -INORGANIC ANALYSIS DATA PACKAGE

|  | •  | ·   |
|--|--|---|
| Client:<br>Project Name:<br>Project No.: | Longview Fibre Paper & Packaging Inc<br>Seattle Stormwater | Service Request: K0700158                               |
|  |  |   |
|  | Sample Name: #1,2,3 Roof Drain #1 Decanting Method Blank   | <u>Lab Code :</u> K0700158-001 K0700158-002 K0700158-MB |
|  |  |   |
|  |  |   |
|  |  |   |
|  |  |   |
|  |  |   |
| Comments:                                |  |   |
|  |  | ·   |

|          |                             |               |              | ia Abaiytical S<br>Receipt and Pr |             |                 | P                           | ·           | <u></u>                                |               |
|----------|-----------------------------|---------------|--------------|-----------------------------------|-------------|-----------------|-----------------------------|-------------|--|---------------|
|          | · vous lines                | 11.           |              | _                                 |             |                 | ,                           | 2015        | )                                      |               |
|          | ject/Client Ung             |               |              |                                   |             |                 | K07                         | 0000        |  |               |
| Cod      | oler received on            | 18/07         | and op       | ened on                           | 1/8         | 0/07 by         | ۲.                          | Sleet       |  |               |
| 1.       | Were custody seals on ou    | tside of coo  | lers?        |                                   | •           |                 |                             |             | W                                      | N             |
|          | If yes, how many and        | where?        |              | 1-8ides                           | 1           |                 |                             |             | (a)                                    | •             |
| 2.       | Were custody seals intact   | ?             |              | <del>   </del>                    |             |                 |                             |             | жO                                     | N             |
| 3.       | Were signature and date p   | present on th | e custody s  | seals?                            |             |                 |                             |             | Ø                                      | N             |
| 4.       | Is the shipper's airbill av | ailable and   | filed? If no | , record airbill nu               | mber:       | 622871          | 14842                       |             | Y                                      | (P)           |
| 5.       | COC#                        |               |              |                                   |             |                 |                             |             |  |               |
|          | Temperature of co           | upon rec      | eipt: (°C)   | _63                               |             |                 |                             |             |  |               |
|          | Temperature Bian            | (°C)          |              | 4.1                               | -           |                 |                             |             |  |               |
|          | Were samples hand           | red on the s  | ari e da las | collection?                       |             |                 |                             |             | Y                                      | <b>K</b>      |
| 6.       | Were custody papers of p    | erly filia    | out ( sig    | ned, etc.)?                       |             |                 |                             |             | Ø                                      | и             |
| 7.       | Type of packing man isl     | present       |              |                                   | allead      | W .             |                             |             | _                                      |               |
| 8.       | Did all bottles a least a   | good coadii   | ion (unbro   | ken)?                             | 0 1         |                 |                             |             | · Ø                                    | N             |
| 9.       | Were all bottle i bels com  | plete (i.e ar | arysis, pres | servation, etc.)?                 |             |                 |                             |             | Ò                                      | N             |
| 10.      | Did all bottle laucis and   | tags ag ee y  | stody        | papers?                           |             |                 |                             |             | Ø                                      | , N           |
| 11.      | Were the correct upes of    | of both       | ed for the   | tests indicated?                  |             |                 |                             |             | Ø                                      | N             |
| 12.      | Were all of the erved       |               |              |                                   | priate pl   | <del>1</del> ?  |                             |             | $\boldsymbol{\varphi}$                 | N             |
| 13.      | Were VOA vair opecked       |               |              |                                   |             |                 |                             |             | <del></del>                            | <del></del> N |
| 14.      | Were the 1631 Mercury b     | ottle         | or abs       | ence of air bubbles               | s, and if p | resent, noted t | pelow?                      |             | *                                      | 14            |
| 15.      | Did the bottles originate f | from CAS/K    | or a branc   | h laboratory?                     |             |                 |                             |             | Ø                                      | N             |
| 16.      | Are CWA Microbiology        | samples re    | eceived wit  | h >1/2 the 24hr. I                | hold time   | e remaining fr  | rom collection!             | ?           |  | _N_           |
| 17.      | Was C12/Res negative?       |               |              |                                   |             |                 |                             |             | 4                                      | _ N           |
| Exp      | olain any discrepancies:_   |               |              |                                   |             |                 |                             |             |  |               |
|          | <del> </del>                |               |              |                                   |             | <del></del>     | <del></del>                 | ·           |  |               |
|          |                             |               |              |                                   | <del></del> |                 |                             |             | ······································ | <del></del>   |
|          |                             |               |              |                                   |             |                 |                             |             |  | -             |
| KE       | SOLUTION:                   | <del></del>   |              | · <del></del> · <u></u> -         |             |                 |                             | <del></del> | <del></del>                            |               |
| San      | nples that required presen  | vation or r   | eceived o    | ut of temperature                 | <b>e</b> :  |                 |                             |             |  |               |
| _        |                             | <del></del>   |              |                                   |             | ·····           | г                           | <del></del> | }                                      |               |
|          | Sample ID                   | Reagent       | Volume       | Lot Numbe                         | er .        | Bottle Type     | Rec'd out of<br>Temperature |             |  |               |
|          | Odinpio is                  | Ittougonit    | 1012111      | 2007741112                        | -           |                 |                             | 11110010    |  |               |
|          |                             |               |              |                                   |             |                 |                             |             |  |               |
|          |                             |               |              |                                   |             |                 |                             |             |  |               |
|          |                             |               |              |                                   |             |                 |                             |             |  |               |
|          |                             | <del> </del>  |              |                                   |             |                 |                             | ļ           |  |               |
|          |                             |               |              |                                   |             |                 | <u> </u>                    | <u> </u>    |  |               |
| $\vdash$ | <del></del>                 | <del> </del>  | ļ            |                                   |             | <del></del>     |                             |             |  |               |

| Columbia<br>Analytical<br>Services   | 17 South 13th Ave.: • Kelso, WA 9862  | HAIN OF CUS  |   | SŔ#:_<br>PAGEOF   | 10700158<br>coc#                      |
|--|---------------------------------------|--|---|---|---------------------------------------|
| An Employee - Owned Company 131 PROJECT HAVE SOME WATER PROJECT NUMBER PROJECT NU |                                       | (300) 5/1/222 (000) 695-7/   | 1/19  |   |                                       |
| STATTLE WA 98  | 134                                   | Constitution of the consti | 18  | 100 Disconded   100 Disconded |                                       |
| P20h) 762-7770   | FON Clongflore, con<br>TMDG) 767-2442 |  |   |   | REMARKS                               |
| #1 roof drain 12/5/06  | 111.20am                              |  |   |   | Test for Zinc as Well                 |
|  | II: zaan                              | - 940  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \               |   |                                       |
| #3 roof drain 12/5/06  | 11,20am                               |  |   |   | G ( Control                           |
|  |                                       |  |   | V 1   | Fort for well                         |
|  |                                       |  |   |   |                                       |
| #1 decanting 1/17/06   | 1140pm                                |  |   | ê   |                                       |
|  |                                       |  |   |   |                                       |
|  |                                       |  |   |   |                                       |
|  |                                       |  |   |   |                                       |
|  | INVOICE INFORMATION                   | Circle which metals are to be si   |   |   |                                       |
| REPORT REQUIREMENTS  | P.O. #                                |  | Ba Be B Ca Cd Co C Cu Fe                            | . Ph. Ma. Ma. Ma. NI. K. Aa. N  | a So Sr Ti Sn V Zn Ho                 |
| Routine Report: Method:  | Bill To:                              |  | Ba Be B Ca Cd Co Cr Cu F                            |   | 机盘 化二溴化苯二胺 医多克氏菌虫                     |
| required +   |                                       |  | CARBON PROCEDURE: AK C                              |   |                                       |
| II. Report DupMS, MSD as required _  | TURNAROUND REQUIREMENT                |  |   |   | · · · · · · · · · · · · · · · · · · · |
| III. Data Validation Roport-   |                                       |  |   |   |                                       |
| (includes all raw data)  | Standard (10-15 working days          | )   {  |   |   |                                       |
| IV. CLP Deliverable Report   | Provide FAX Results                   |  |   |   |                                       |
| V. EDD   | Requested Report Date                 | I week Ru  | 6H per Ed- Tolah                                    | 11/8/07   |                                       |
| RELINQUISHED BY:  120 Signed From A Long Long Long Long Long Long Long Long  | Signature) Bill                       | CEIVED BY JOUNG DAIGHTIME DAIGHTIME  | RELINGUISHED B  Signature Date/1  Printed Name Firm |   | RECEIVED BY: Date/Time                |
| Tanada Tana  | DUC Franco Name.                      | · rum  | ramouname Citti                                     | r mac realie  | RCOC #1 06/03                         |

### SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter):

2006 year

Jan/Feb/Mar

Apr/May/Jun



Oct/Nov/Dec

Facility/Site Information

**Mailing Information** 

LONGVIEW FIBRE SEATTLE Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point   | Roof drain to s       | utfall DO | <u> </u> |                   |             |                |  |  |  |  |  |  |
|---|-----------------------|-----------|----------|-------------------|-------------|----------------|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |                       |           |          |                   |             |                |  |  |  |  |  |  |
| Quarterly Monitoring  |                       | AVERAGE   | MAXIMUM  | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |  |
| Turbidity   | Consistent Attainment | 2.5       |          | NTU               | Grab        |                |  |  |  |  |  |  |
| pН  | Consistent Attainment | 6.98      |          | Standard<br>Units | 11          |                |  |  |  |  |  |  |
| Zinc (total)  | Consistent Attainment | 106       |          | μg/L              | 11          |                |  |  |  |  |  |  |
| Oil & Grease  | Consistent Attainment | ND        |          | mg/L              | Grab        |                |  |  |  |  |  |  |

Monitoring associated with impaired waterbodies:

| Discharge Point   |                       |         |         |                   |             | · ·            |  |  |  |
|---|-----------------------|---------|---------|-------------------|-------------|----------------|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |                       |         |         |                   |             |                |  |  |  |
| Quarterly Monitoring  |                       | AVERAGE | MAXIMUM | UNTTS             | Sample Type | Events Sampled |  |  |  |
| pН  | Consistent Attainment | 6.98    |         | Standard<br>Units | Grab        |                |  |  |  |
| Solids, Total<br>Suspended  | Consistent Attainment | ND      |         | mg/L              | 1 i         |                |  |  |  |

| P.L. BACKE   | 10          | 16    | 2006 |
|--|-------------|-------|------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)    | DATE: MO    | DAY   | YEAR |
| 72 Bull  | 206-7       | 62-71 | 20   |
| SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE N | JMBER |      |
| INTS/EXPLANATIONS  |             |       |      |
|  |             |       |      |

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name :

Seattle Stormwater

Service Request: K0608376 Date Collected: 09/20/06

Project Number: NA Sample Matrix: WATER

Date Received: 09/29/06

Turbidity

Units: NTU

Analysis Method: 180.1

Basis: NA

Test Notes:

| Sample Name  | Lab Code     | MRL | Dilution<br>Factor | Date/Time<br>Analyzed | Result | Result<br>Notes |
|--------------|--------------|-----|--------------------|-----------------------|--------|-----------------|
| Roof Drain   | K0608376-001 | 0.2 | 1                  | 09/29/06 15:05        | 2.5    | X               |
| Method Blank | K0608376-MB  | 0.2 | 1                  | 09/29/06 15:05        | ND     |                 |

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Project Name:

Seattle Stormwater

Date Collected: 09/20/06

Project Number: NA Sample Matrix :

WATER

Date Received: 09/29/06

pН

Units: pH UNITS

Basis: NA

Analysis Method: 150.1 Test Notes:

Lab Code MRL

Dilution Factor

Date/Time Analyzed

Result Notes

Sample Name Roof Drain

K0608376-001

1

09/29/06 21:09

Result 6.98

nnn: 5

Report By: Agreer

LFC002418

### Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Project No.: Matrix: NA Water Service Request: K0608376

Date Collected: 09/20/06 Date Received: 09/29/06 Date Extracted: 09/29/06

Total Metals Units: ug/L (ppb)

|              | Analyte:                | Copper   | Lead     | Zinc     |
|--------------|-------------------------|----------|----------|----------|
|              | EPA Method:             | 6010B    | 7421     | 6010B    |
|              | Method Reporting Limit: | 10       | 2.0      | 10       |
|              | Date Analyzed:          | 10/03/06 | 10/02/06 | 10/03/06 |
| Sample Name  | Lab Code                |          |          |          |
| Roof Drain   | K0608376-001            | l2       | ND       | 106      |
| Method Blank | K0608376-MB             | ND       | ND       | ND       |

Comments:

Analytical Report

Client:

Project:

Sample Matrix:

Longview Fibre Paper & Packaging Inc

Seattle Stormwater

Water

Service Request: K0608376

Date Collected: 9/20/2006

Date Received: 9/29/2006

Oil and Grease

Sample Name:

Lab Code:

Roof Drain

Units: mg/L (ppm)

Basis: NA

Test Notes:

K0608376-001

Prep Analysis Method Method MRL

Dilution Date Factor Extracted Analyzed Result

Date

Result Notes

Analyte

Oil and Grease, Total (HEM)

METHOD 1664

5.0

10/3/2006 10/3/2006

Approved By: 1522/026597p

K0608376phc kc) - 1 10/3/2006

Page No



October 9, 2006

Service Request No: K0608376

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on September 29, 2006. For your reference, these analyses have been assigned our service request number K0608376.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace Ed Wallace

Project Chemist

EW/lmb

Page 1 of 12

NELAP Accredited

ACIL Seal of Excellence Award

TO 100% Revised

### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0,995.

#### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A tentatively identified compound, a suspected aidol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Client:

Longview Fibre

Project:

Seattle Stormwater

Sample Matrix: Water

Service Request No.: Date Received:

K0608376

9/29/06

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

One water sample was received for analysis at Columbia Analytical Services on 9/29/06. The following discrepancies were noted upon initial sample inspection. The samples were received at 13.6 °C, which is above the control limit of 6.0 °C. The exceptions are also noted on the cooler receipt and preservation form included in this data package. Otherwise, the samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

### General Chemistry Parameters

pH by EPA 150.1:

Turbidity by EPA 180.1:

Sample Roof Drain was received seven days past the recommended 24 hour holding time. The analysis was performed as soon as possible after receipt by the laboratory.

### Total Metals

No anomalies associated with the analysis of these samples were observed

### Oil and Grease by EPA Method 1664

No anomalies associated with the analysis of these samples were observed

Approved by Euw Date 10/9/06

# Analytical Report

Client: Project: Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Sample Matrix:

Seattle Stormwater

Date Collected: NA

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K061003-WB

Basis: NA

Test Notes:

Date Result Dilution Date Prep Analysis Notes Factor Extracted Analyzed Result Analyte Method Method MRL 1664 5.0 10/3/2006 10/3/2006 ND Oil and Grease, Total (HEM) METHOD 1

Date: 10/3/02 Approved By: 1S72/020397p

K0608376phc ks1 - MB 10/3/2006

nnnii

| PROJECT NAME SANTHE STORM   |  |  | 8626 • (360)             | 577-7222                      | • (800) e                | 95-722                | 2x07 • 8             | <b>)Y</b><br>(AX (360) | 636-10      | 168             | PAG    | E                   |                |                    | SR#:              | _ cc  |               | 10) 9                                   |
|---|--|--|--------------------------|-------------------------------|--------------------------|-----------------------|----------------------|------------------------|-------------|-----------------|--------|---------------------|----------------|--------------------|-------------------|-------|---------------|---|
| "(26) 762-7170 sales Milliage   | 1<br>- Paika<br>na   Wa<br>8134<br>134<br>154<br>1500)76 | gung<br>ly Sout G<br>Corr<br>67-2442     | OF CONTAINFES            | Me Organics h                 | STOCKES STOCKES          | I's ('see below) BTEX | Schill (FO)          | C 198 pg               | 1           | 8751A[]         | 2/53   | DH, Cond Diex-Chros |                | TOX 5020 [] (24.0) | 10×1650[7] 506[7] |       |               | REMARKS                                 |
| #1 roof drain 9/20/06 #2 roof drain 9/20/06 #3 roof drain 9/20/06   | TIME LA  | BID. MATRIX                              |                          |                               | 9/10                     |                       |                      | 4/-4                   | 5/02        |                 |        |                     |                | -/-                |                   |       |               | / · · · · · · · · · · · · · · · · · · · |
|   |  |  |                          |                               |                          |                       |                      |                        |             |                 |        |                     |                |                    |                   |       |               |   |
| OFFICIAL DECIMAL AND ADDRESS OF THE | INVOICE  | INFORMATION                              | Circl                    | e which met                   | als are to               | be and                | lyzed:               |                        |             |                 |        |                     |                |                    |                   |       |               |   |
| REPORT REQUIREMENTS  I. Routine Report: Method Blank, Surrogale, as required  II. Report Dup., MS. MSD as required  III. Data Validation Report (includes all raw data)   | P.O. #   |  | Diss<br>'INI<br>ENTS SPE | otal Metals:<br>olved Metals: | AI As<br>AI As<br>TATE H | Sb Ba                 | a Be B<br>a Be E     | Ca Co                  | Co<br>EDURE | Cr Cu           | Fe Pb  | Mg N                | An Ma<br>RTHWE | NI K               | Ag Na             | a Se  | Sr TI<br>(CIF | Sn V Zn Hg Sn V Zn Hg RCLEONE) Mike A.  |
| IV. CLP Deliverable Report  V. EDD  RELINQUISHED BY  Sografie  A 2006 Sografie  A 100 Annales  Printed Name  Firm A   | Provide I  | FAX Results  Med Report Date  Stopper Te |                          | Date/Faprie                   | 161                      | 0                     | / <u>OD</u><br>Signa | 7                      | ELINQI      | 1/29/<br>JISHED | e/Timə |                     | . ! .          | Signatu            | re                | RECEI | VED BY        | a/Time                                  |

|            |  |                |              |            | nalytical Servi<br>ipt and Preserv |                    | P               | C_ <i>E</i>                                      |                 |           |
|------------|--|----------------|--------------|------------|------------------------------------|--------------------|-----------------|--|-----------------|-----------|
|            | oject/Clien  | Angla s        | 1/10/        | (A)        |                                    | Service Reguest    | 1 K06 0 8       | 376<br>vl)                                       |                 |           |
| ,          | Ware material and a                                |                |              |            |                                    |                    |                 |  | -25             |           |
| 1.         | Were custody seals on                              |                | olers?       | 16         |                                    |                    |                 |  | Ø               | N         |
| _          | If yes, how many a                                 |                | 17,          |            |                                    |                    |                 |  | 63              |           |
| 2.         | Were custody seals inta                            |                |              |            |                                    |                    |                 |  | (S)             | И         |
| 3.         | Were signature and date                            | -              |              |            |                                    |                    |                 |  | ( <u>v</u> )    | И         |
| 4.         | Is the shipper's airbill a                         | available and  | filed? If n  | o, reco    | nd aúbill number:_                 | <del></del>        |                 |  | Ŷ               | N         |
| 5.         | COC# Temperature of coole Temperature Blank:       |                | ceipt: (°C)  | )          | 14.1                               |                    |                 |  |                 |           |
|            | Were samples hand deli-                            |                | -            |            |                                    | ,                  |                 |  | Y               | •         |
| 6.<br>7.   | Were custody papers pro<br>Type of packing materia |                |              |            |                                    | t signed           |                 |  | Y               | $\otimes$ |
| 8.         | Did all bottles arrive in                          | a good condi   | tion (unbr   | oken):     | ,                                  |                    |                 |  | Đ               | Я         |
| 9.:        | Were all bottle labels co                          | omplete (i.e a | nalysis, pre | servati    | on, etc.)?                         |                    |                 |  | Ø               | N         |
| 10.        | Did all bottle labels and                          | d tags agree v | with custod  | у раре     | rs?                                |                    |                 |  | Y               | N         |
| 11.        | Were the correct types                             | s of bottles u | sed for the  | etests     | indicated?                         |                    |                 |  | Q A             | หุ        |
| 12.        | Were all of the preserve                           | ed bottles rec | eived at the | lab wi     | ith the appropriate                | pH?                |                 |  | <b>**</b>       | (W)       |
| 13.        | Were VOA vials checked                             | ed for absenc  | e of air but | obles, a   | ind if present, note               | d below?           |                 |  | ¥               | _И_       |
| 14.        | Were the 1631 Mercury                              | bottles chec   | ked for abs  | епсе о     | fair bubbles, and i                | f present, noted l | below?          |  | <del>-Y</del>   | <u></u> N |
| 15.        | Did the bottles originate                          | from CAS/I     | Cor a branc  | ch labo    | ratory?                            |                    |                 |  | Ø 4             | - (N)     |
| 16.        | Are CWA Microbiolog                                | gy samples r   | eceived wit  | th >1/2    | the 24hr. hold ti                  | me remaining f     | rom collection? |  | 7               | — И       |
| 17.        | Was C12/Res negative?                              | )              | •            | , -        |                                    |                    | 1               |  | <del>-1</del> - | N         |
| Exp<br>Jid | lain any discrepancies:                            | Added '        | Studge       | irau<br>5a | time of                            | 15/0 to            | <u>COC</u>      |  |                 |           |
| RES        | SOLUTION:  |                |              |            |                                    |                    |                 |  |                 |           |
| Sam        | ples that required press                           | ervation or i  | ecsived o    | ut of to   | emperature:                        |                    |                 |  |                 |           |
|            | <u> </u>   |                |              |            |                                    |                    | Rec'd out of    |  |                 |           |
|            | Semple ID  | Reagent        | Volume       | Ъ          | Lot Number                         | Bottle Type        | Temperature     | Initials   |                 |           |
|            | Look SLAND   | lwh            | A 20)        | D          | 1909)                              | <del></del>        |                 | - XT   |                 |           |
|            |  |                |              |            |                                    | <del> </del>       |                 |  |                 |           |
|            |  | <del></del> -  |              |            | <del></del>                        | <del> </del>       | <del></del>     |  |                 |           |
|            |  | -              |              |            |                                    | +                  |                 |  |                 |           |
|            |  | +              |              |            |                                    |                    |                 |  | •               |           |
|            | ·  | +              |              |            | <del></del>                        | <del> </del>       |                 |  |                 |           |
|            |  |                |              |            |                                    |                    |                 | <del>                                     </del> |                 |           |

000.3

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Project:

Seattle Stormwater

Date Collected: 9/20/2006

Sample Matrix:

Water

Date Received: 9/29/2006

Oil and Grease

Sample Name:

Roof Drain

Units: mg/L (ppm)

Lab Code:

K0608376-001

Basis: NA

Test Notes:

Dilution Date Result Prep Analysis Date Notes Method MRL Factor Extracted Analyzed Result Analyte Method Oil and Grease, Total (HEM) METHOD 1664 5.0 10/3/2006 10/3/2006 ND

K 0508376phc kc1 - 1 10/3/2006

Page No

### Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name : Project No. : Seattle Stormwater

Matrix:

NA Water Service Request: K0608376

Date Collected: 09/20/06 Date Received: 09/29/06 Date Extracted: 09/29/06

Total Metals

Units: ug/L (ppb)

|              | Analyte:                | Copper   | Lead     | Zinc     |
|--------------|-------------------------|----------|----------|----------|
|              | EPA Method:             | 6010B    | 7421     | 6010B    |
|              | Method Reporting Limit: | 10       | 2.0      | 10       |
|              | Date Analyzed:          | 10/03/06 | 10/02/06 | 10/03/06 |
|              |                         |          |          |          |
| Sample Name  | Lab Code                |          |          |          |
| Roof Drain   | K0608376-001            | 12       | ND       | 106      |
| Method Blank | K0608376-MB             | ND       | ND       | ND       |

Comments:

### Analytical Report

Client: Project: Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Sample Matrix:

Seattle Stormwater Water Date Collected: NA
Date Received: NA

Matrix:

.

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K061003-WB

Basis: NA

Test Notes:

Prep Analysis Dilution Date Date Result Analyte Method Method MRL Factor Extracted Analyzed Result Notes Oil and Grease, Total (HEM) METHOD 1664 5.0 10/3/2006 10/3/2006 ND

Approved By: Date: 10/3/00

K060\$376pnc kc1 - MB 10/3/2006

Page No

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Project Name:

Seattle Stormwater

Sample Matrix:

Project Number: NA WATER Date Collected: 09/20/06
Date Received: 09/29/06

pН

Units: pH UNITS

Analysis Method: 150.1

Test Notes:

Basis: NA

Sample Name

Lab Code

MRL

Dilution Factor

Date/Time Analyzed

Result Notes Result

Roof Drain

K0608376-001

09/29/06 21:09

6.98

Report By: Agreer

# Analytical Report

Longview Fibre Paper & Packaging Inc. Seattle Stormwater

Service Request: K0608376

Project Name:

Date Collected: 09/20/06

Project Number: NA

Sample Matrix : WATER

Date Received: 09/29/06

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Basis: NA

Analysis Method: 160.2

Test Notes:

| Sample Name                | Lab Code                    | MRL    | Dilution<br>Factor | Date<br>Analyzed     | Result   | Result<br>Notes |
|----------------------------|-----------------------------|--------|--------------------|----------------------|----------|-----------------|
| Roof Drain<br>Method Blank | K0608376-001<br>K0608376-MB | 5<br>5 | 1                  | 09/30/06<br>09/30/06 | ND<br>ND |                 |

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Service Request: K0608376 Date Collected: 09/20/06

Project Number: NA Sample Matrix :

WATER

Date Received: 09/29/06

Turbidity

Units: NTU

Analysis Method: 180.1

Basis: NA

Test Notes:

| Sample Name                | Lab Code                    | MRL        | Dilution<br>Factor | Date/Time<br>Analyzed            | Result    | Result<br>Notes |
|----------------------------|-----------------------------|------------|--------------------|----------------------------------|-----------|-----------------|
| Roof Drain<br>Method Blank | K0608376-001<br>K0608376-MB | 0.2<br>0.2 | 1                  | 09/29/06 15:05<br>09/29/06 15:05 | 2.5<br>ND | x `             |

Report By. Agreer

# • Cover Page • INORGANIC ANALYSIS DATA PACKAGE

| Client :<br>Project Name :<br>Project No. : | Longview Fibre Paper & Packaging Inc<br>Seattle Stormwater<br>NA | Service Request: K0608376                        |
|---|--|--|
|   | <u>Sample Name :</u><br>Roof Drain<br>Method Blank               | <u>Lab Code ;</u><br>K0608376-001<br>K0608376-MB |
|   |  |  |
|   |  |  |
|   |  | •  |
|   |  |  |

Comments:

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc Seattle Stormwater

Project Name:

Project No.:

NA

Service Request: K0608376

Sample Name:

Roof Drain Method Blank Lab Code:

K0608376-001 K0608376-MB

Comments:

### Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Project Name:

Seattle Stormwater

Date Collected: 09/20/06

Project Number: NA Sample Matrix :

WATER

Date Received: 09/29/06

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Basis: NA

Analysis Method: 160.2

Test Notes:

Result Dilution Date Notes Result Sample Name -Lab Code MRL Factor Analyzed ND 09/30/06 5 Roof Drain K0608376-001 09/30/06 ND Method Blank K0608376-MB 5 I



October 9, 2006

Service Request No: K0608376

Mike Anderson Longview Fibre Paper & Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on September 29, 2006. For your reference, these analyses have been assigned our service request number K0608376.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Wallers

Ed Wallace

Project Chemist

EW/lmb

Page 1 of \_\_\_\_\_\_\_



### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case namative.
- The duplicate analysis not within control limits. See case narrative.
- The correlation coefficient for the MSA is less than 0.995.

### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confinnation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y
  The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

ดกกก 3

Client:

Longview Fibre

Project:

Seattle Stormwater

Sample Matrix: Water

Service Request No.:

K0608376

Date Received:

9/29/06

### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

One water sample was received for analysis at Columbia Analytical Services on 9/29/06. The following discrepancies were noted upon initial sample inspection. The samples were received at 13.6 °C, which is above the control limit of 6.0 °C. The exceptions are also noted on the cooler receipt and preservation form included in this data package. Otherwise, the samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

### **General Chemistry Parameters**

### pH by EPA 150.1:

Turbidity by EPA 180.1:

Sample Roof Drain was received seven days past the recommended 24 hour holding time. The analysis was performed as soon as possible after receipt by the laboratory.

### Total Metals

No anomalies associated with the analysis of these samples were observed

### Oil and Grease by EPA Method 1664

No anomalies associated with the analysis of these samples were observed

Approved by EULD Date 10/9/06

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Project Number: NA

Sample Matrix :

Seattle Stormwater

WATER

Service Request: K0608376

Date Collected: 09/20/06

Date Received: 09/29/06

рΗ

Analysis Method: 150.1

Test Notes:

Roof Drain

Units: pH UNITS

Basis: NA

Sample Name

Lab Code

MRL

Dilution Factor

Date/Time Analyzed

Result Result Notes

K0608376-001

ı

09/29/06 21:09

.6.98

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Project Name:

ame: Seattle Stormwater

Date Collected: 09/20/06

Project Number: NA

Sample Matrix: WATER

Date Received: 09/29/06

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Basis: NA

Analysis Method: 160.2

Test Notes:

Durio. 1172

| Sample Name                | Lab Code                    | MRL    | Dilution<br>Factor | Date<br>Analyzed     | Result   | Result<br>Notes |
|----------------------------|-----------------------------|--------|--------------------|----------------------|----------|-----------------|
| Roof Drain<br>Method Blank | K0608376-001<br>K0608376-MB | 5<br>5 | 1                  | 09/30/06<br>09/30/06 | ND<br>ND |                 |

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Service Request: K0608376 Date Collected: 09/20/06

Project Number: NA Sample Matrix:

WATER

Date Received: 09/29/06

Turbidity

Analysis Method: 180.1

Test Notes:

Units: NTU

Basis: NA

| Lab Code MRL |              | Dilution<br>Factor | Date/Time<br>Analyzed  | Result   | Result<br>Notes   |
|--------------|--------------|--------------------|--|--|---|
| K0608376-001 | 0.2          | I                  | 09/29/06 15:05   | 2.5  | X   |
| K0608376-MB  | 0.2          | 1                  | 09/29/06 15:05   | ND   |   |
|              | K0608376-001 | K0608376-001 0.2   | Lab Code         MRL         Factor           K0608376-001         0.2         ! | Lab Code         MRL         Factor         Analyzed           K0608376-001         0.2         I         09/29/06 15:05 | Lab Code         MRL         Factor         Analyzed         Result           K0608376-001         0.2         I         09/29/06 15:05         2.5 |

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper & Packaging Inc

Project Name:

Seattle Stormwater

Project No.:

NA

Service Request: K0608376

Sample Name:

iin

Roof Drain Method Blank Lab Code:

K0608376-001 K0608376-MB

Comments:

Approved By:

715

Date:

Dotalo

ROBORD

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Seattle Stormwater

Project Name : Project No. : Matrix:

NA Water

Service Request: K0608376 Date Collected: 09/20/06 Date Received: 09/29/06

Date Extracted: 09/29/06

Total Metals Units: ug/L (ppb)

|              | Analyte:<br>EPA Method:<br>Method Reporting Limit:<br>Date Analyzed: | Copper<br>6010B<br>10<br>10/03/06 | Lead<br>7421<br>2.0<br>10/02/06 | Zinc<br>6010B<br>10<br>10/03/06 |
|--------------|--|-----------------------------------|---------------------------------|---------------------------------|
| Sample Name  | Lab Code   |                                   |                                 |                                 |
| Roof Drain   | K0608376-001   | 12                                | ND                              | 106                             |
| Method Blank | K0608376-MB  | ND                                | ND                              | ND                              |

Comments:

Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Project:

Seattle Stormwater

Date Collected: 9/20/2006

Sample Matrix:

Water

Date Received: 9/29/2006

Oil and Grease

Sample Name:

Roof Drain

Units: mg/L (ppm)

Lab Code:

K0608376-001

Basis: NA

Test Notes:

Analyte

Analysis Prep Method Method MRL

1664

Dilution Date Date Factor Extracted Analyzed Result Result Notes

Oil and Grease, Total (HEM)

METHOD

5.0

10/3/2006 10/3/2006

1

ND

Approved By: 1\$22/020597p

K0608376phc kc1 - 1 10/3/2006

Page No

# Analytical Report

Client:

Longview Fibre Paper & Packaging Inc

Service Request: K0608376

Project: Sample Matrix: Seattle Stormwater

Date Collected: NA

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K061003-WB

Basis: NA

Test Notes:

Analyte

Prep Analysis Dilution Date Date Result Method Method MRL Factor Extracted Analyzed Result Notes

METHOD

1664

10/3/2006 10/3/2006

Oil and Grease, Total (HEM)

5.0

ND

Approved By: 1522/020597p

K0608376phr kc1 - MB 10/3/2006

nnnii

| Columbia<br>Analytical<br>Services <sup>MC</sup>                             |   |                |                  | СН       | AIN                | OF                      | C              | US           | STC       | )D          | Y                    |               |                    | _         |     | _         |   | SR#: 16683 6                              |          |  |  |          | 76                     |          |
|--|---|----------------|------------------|----------|--------------------|-------------------------|----------------|--------------|-----------|-------------|----------------------|---------------|--------------------|-----------|-----|-----------|---|---|----------|--|--|----------|------------------------|----------|
| Au Employee - Owned Company  | 1317 South 1                            | 3lh Ave. • Kel | so, WA 9         | 8626 • ( | 360) 577           | -7222 •                 | (800)          | 695-72       | 22x07     | • FAX       | (360)                | 636-10        | 268                | F         | AGE |           |   | OF  |          |  | _ cc   | C #_     |                        |          |
| PROJECT MANYBER  PROJECT MANYBER  PROJECT MANYBER                            |   | ter_           |                  |          |                    | /: /                    | \$ [ ]         | BIEXCI       | 7         | 7           | 0.5%                 | 7             | 815147             |           | 7/  | 7         |   | \<br>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | <u> </u> | 2000   | 7  | 7/       | ////                   | , d      |
| 590/ East No<br>GITYISTALE MA  | per + Pi<br>arginal<br>19813<br>longfil | Way Sore Cov   | ntl              | - / 3    | CONTAINERS         | Olatile Organics by GC. | Solis<br>Solis | 80%          | 80        | A HEMON 168 | Pesticides.1. Conges | 80814 Cides   | PAHS Tella D 8151M | Day Dores |     | Tex-China |   | e) Volat P TKN                            | 40, 165  |  | //   | //       |                        |          |
| SAMPLE I.D. DA   | TE TIME                                 | LAB I.D.       | MATRIX           | NUMBER   |                    |                         |                |              | Olik Gree | A Signal    |                      |               | ]/ ž               | Netal S   |     |           |   |   |          |  |  |          | REMARK                 | (S       |
| #1 roof drain 9/2  | <del></del>                             |                |                  |          |                    |                         |                |              |           |             |                      |               |                    |           |     |           |   |   | Ĺ        |  |  |          |                        |          |
| # 2 roof draw 9/20   | 2061                                    |                |                  |          | : -                |                         | _              |              |           |             |                      |               |                    |           |     |           |   |   |          | -  |  | -        |                        |          |
| 2 1 00 F WUIN 1/2  | 700                                     | <del> </del>   |                  | -+       |                    |                         | $\vdash$       | -            |           |             |                      |               | -                  |           |     |           |   |   |          | <del>                                     </del> | <del>                                     </del> |          | <u> </u>               | $\dashv$ |
|  |   |                |                  |          |                    |                         |                |              |           |             |                      |               |                    |           |     |           |   |   |          |  |  |          |                        |          |
|  |   |                |                  | -        |                    |                         | <del> </del>   |              |           |             |                      |               |                    |           |     |           |   | <u> </u>                                  | <u> </u> | <u> </u>   | <u> </u>   | <u> </u> |                        |          |
|  |   | <u> </u>       |                  | -        |                    |                         | ├              | -            | <u> </u>  |             | -                    | <u> </u>      |                    |           |     |           | _ |   |          | ├-   |  |          | ļ                      |          |
|  | <del>-  </del>                          | -              |                  | -        | <del>: -   -</del> |                         | <del> </del>   | <del> </del> |           |             |                      |               |                    |           |     |           | - |   |          | <del> </del>                                     | <del> </del>                                     | -        |                        |          |
|  |   |                |                  |          |                    |                         |                |              |           |             |                      |               |                    |           |     |           |   |   |          |  |  |          |                        |          |
| REPORT REQUIREMENTS  I. Routine Report: Metho Blank, Surrogate, as           | P.O. #                                  | OICE INFOR     | MATION           |          | Total N            |                         | l As           | Sb B         | a Be      |             |                      |               |                    |           |     | _         |   |   | _        |  |  |          | Sn V Zn H<br>Sn V Zn I |          |
| required   | 1                                       |                |                  | i_       |                    | TE STA                  |                |              |           |             |                      |               |                    |           |     |           |   |   |          |  |  |          | CLE ONE)               | -        |
| II. Report Dup., MS, MSC required  | as TURNA                                | ROUND REC      | UIREMI<br>48 hr. | _        |                    |                         |                |              |           |             |                      |               |                    |           |     |           |   |   |          |  |  |          | Vike A                 |          |
| III. Data Validation Report (includes all raw data)                          | 15                                      | Day            |                  | daya\    | 1e                 | .s+ +                   | γα             | 6            | MC        | av          | 1dl                  | - <del></del> | ייעי               | w.,,      | 1   |           |   | , ,                                       | ,,,,     | **   | 8  |          | -                      |          |
| Standard (10-15 working days) IV. CLP Deliverable Report Provide FAX Results |   |                |                  | Jays)    |                    |                         |                |              |           |             |                      |               | ,                  |           |     |           |   |   |          |  |  |          |                        | İ        |
| V. EDD   |   | Requested Rep  | ort Daje         | _        | ÁÍÍ                | MC:                     | 161            | D            | A         | - QU        | tll                  | 9             | 1/29               | IN        |     |           |   |   |          |  |  |          |                        |          |
| 1// RELINQUISHED   | BY: 20/06 3130.                         | n              | 1                | RECEI    |                    | : 9h                    | 2/             | 1/           | 15        | 75/         |                      |               | JISHE              | D BY:     |     |           |   |   |          | RI   | ECEIV  | ED BY    | <b>':</b>              |          |
|  | <del></del>                             | 4              | ~0 <i>(</i>      | 1        | Date               | Terrie)                 | 1              | .            | Sig.      | nature      | ,                    |               |                    | ate/Tin   | ne  |           |   | Signa                                     |          |  |  |          | /Time                  | _        |
| Printed Name Firm  | ngricul Pape                            | Prhie          | to Klalke        | 10       | Firm               |                         | <u>~</u>       |              | Prir      | N betr      | ame                  |               | Fi                 | irm       |     |           |   | Print                                     | ed Na    | me   |  | Firm     | RCOC #1                | 06/03    |

| Cooler Receipt and Preservation Form   |                  |               |
|--|------------------|---------------|
| Project/Client Service Request K06 08376   |                  |               |
| Cooler receiped on 19/00 tan open on 9/29/06 by A. Gyrll   |                  |               |
| Were custody seals on outside of coolers?  If yes, how many and where?  If yes, how many and where?  | Ô                | N             |
|  | $\bigcirc$       | 3.1           |
| 2. Were custody seals intact? 3. Were signature and date present on the custody seals?   | (Y)              | N             |
| 4. Is the shipper's airbill available and filed? If no, record airbill number:   | ~                | Ŋ             |
| 5. COC#  | (Ý)<br>          | И             |
| Temperature of cooler(s) upon receipt: (°C)  |                  |               |
| Temperature Blank: (°C)  | <del></del>      | _             |
| Were samples hand delivered on the same day as collection?   | Y                | <b>®</b>      |
| 5. Were custody papers properly filled out (ink, signed, etc.)? I COC WOF SIAMED   | Y                | B             |
| 7. Type of packing material present <u>HAW WAVIN GCP PKS, SICCVES</u>  |                  |               |
| B. Did all bottles arrive in good condition (unbroken)?  | Ø                | И             |
| 9. Were all bottle labels complete (i.e analysis, preservation, etc.)?   | $\Theta$         | И             |
| 10. Did all bottle labels and tags agree with custody papers?  | Y                | (N)           |
| 11. Were the correct types of bottles used for the tests indicated?  | A                | - N           |
| 12. Were all of the preserved bottles received at the lab with the appropriate pH?   | 0                | W             |
| 13. Were VOA vials checked for absence of air bubbles, and if present, noted below?  | · <del>Y</del> - | <u> </u>      |
| 4. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?  | <del>-y</del>    | <u>}¼</u>     |
| 15. Did the bottles originate from CAS/K or a branch laboratory?   | Ø 4              | - (N)         |
| 6. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?  | Y                | <u>₩</u> .    |
| 17. Was C12/Res negative?  | <del>-Y</del>    | <u></u> y     |
| Explain any discrepancies: Adold "Rost drain" time of 1510 to CCC.   |                  | - <del></del> |
|  |                  |               |
| RESOLUTION:  | -                |               |
| Samples that required preservation or received out of temperature:   |                  |               |
| Sample ID Reagent Volume Lot Number Bottle Type Rec'd out of Temperature Initials  |                  |               |
| Jan Marine Julian Julia |                  |               |
|  |                  |               |
|  |                  |               |
|  |                  |               |
|  | ,                |               |
|  | 1                |               |

Columbia Analytical Services Inc.

#### SO3-000206D

#### INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter): 2006

Jan/Feb/Mar



Jul/Aug/Sep

Oct/Nov/Dec

Facility/Site Information

LONGVIEW FIBRE SEATTLE Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

**Mailing Information** 

LONGVIEW FIBRE COMPANY PO BOX 639

LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

# Discharge Point Koot drain to outfall

There was no qualifying storm event this quarter so no values are entered below (see explanation)

|                      | , ,                   |         |         |                   | ` .         | •              |
|----------------------|-----------------------|---------|---------|-------------------|-------------|----------------|
| Quarterly Monitoring |                       | AVERAGE | MAXIMUM | UNITS             | Sample Type | Events Sampled |
| Turbidity            | Consistent Attainment | 2.2     |         | NTU               | Grab        | 1              |
| рН                   | Consistent Attainment | 6.81    |         | Standard<br>Units | "           | 1              |
| Zinc (total)         | Consistent Attainment | 112     |         | μg/L              | 21          | l              |
| Oil & Grease         | Consistent Attainment | NO      |         | mg/L              | Grab        | 1              |

Monitoring associated with impaired waterbodies:

| Discharge Point <b>Loof</b> a | rain to outfall 001 |
|-------------------------------|---------------------|
|-------------------------------|---------------------|

There was no qualifying storm event this quarter so no values are entered below (see explanation)

| Quarterly Monitoring       |                       | AVERAGE | MAXIMUM | UNITS             | Sample Type | Events Sampled |
|----------------------------|-----------------------|---------|---------|-------------------|-------------|----------------|
| pН                         | Consistent Attainment | 6.81    |         | Standard<br>Units | Grab        | 1              |
| Solids, Total<br>Suspended | Consistent Attainment | ND      |         | mg/L              | 11          | 1              |

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0604839 Date Collected: 06/08/06

Project Name: Project Number: NA

Seattle Stormwater

Sample Matrix: WATER

Date Received: 06/14/06

Turbidity

Analysis Method: 180.1

Units: NTU

Test Notes:

Basis: NA

| Sample Name                | Lab Code                    | MRL | <b>Dilution</b><br>Factor | Date/Time<br>Analyzed            | Result     | Result<br>Notes |
|----------------------------|-----------------------------|-----|---------------------------|----------------------------------|------------|-----------------|
| Roof Drain<br>Method Blank | K0604839-001<br>K0604839-MB | 0.2 | 1                         | 06/14/06 15:05<br>06/14/06 15:05 | 22.2<br>ND | Х               |

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0604839

Project Name:

Seattle Stormwater

Date Collected: 06/08/06

Project Number: NA

WATER Sample Matrix :

Date Received: 06/14/06

pН

Analysis Method: 150.1

Test Notes:

Units: pH UNITS

Basis: NA

Sample Name

Lab Code

Dilution Factor

MRL

Date/Time Analyzed

Result Result Notes

Roof Drain

K0604839-001

06/14/06 22:04

6.81

000-4

#### **Analytical Report**

Client:

Longview Fibre Paper and Packaging Inc

Project Name: Project No.:

Seattle Stormwater

Matrix:

NA Water

Service Request: K0604839 Date Collected: 06/08/06 Date Received: 06/14/06

Date Extracted: 06/15/06

Total Metals Units: ug/L (ppb)

Analyte:

Zinc

EPA Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

06/16/06

Sample Name

Lab Code

Roof Drain

K0604839-001

408

Method Blank

K0604839-MB

ND

Comments:

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Project:

Seattle Stormwater

Service Request: K0604839 Date Collected: 6/8/2006

Sample Matrix: Water Date Received: 6/14/2006

Oil and Grease

Sample Name:

Roof Drain

Units: mg/L (ppm)

Lab Code:

K0604839-001

Basis: NA

Test Notes:

Analyte

Prep : Analysis Method Method MRL Dilution Factor Extracted Analyzed Result

Date Date Result Notes

Oil and Grease, Total (HEM)

METHOD

1664 5.0 6/16/2006 6/16/2006

5.5

Approved By: 1S22/020597p

K0604839phc kc I - 1 6/19/2006

pan 9

Page No :

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0604839

Project Name: Project Number: NA

Seattle Stormwater

Date Collected: 06/08/06

Sample Matrix: WATER

Date Received: 06/14/06

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Analysis Method: 160.2 Test Notes:

Basis: NA

| Sample Name                | Lab Code                    | MRL    | Dilution<br>Factor | Date<br>Analyzed     | Result   | Result<br>Notes |
|----------------------------|-----------------------------|--------|--------------------|----------------------|----------|-----------------|
| Roof Drain<br>Method Blank | K0604839-001<br>K0604839-MB | 5<br>5 | 1                  | 06/14/06<br>06/14/06 | 16<br>ND |                 |



July 6, 2006

Service Request No: K0604839

Mike Anderson Longview Fibre Paper and Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on June 14, 2006. For your reference, these analyses have been assigned our service request number K0604839.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted.

Columbia Analytical Services, Inc.

Ed Wallace

**Project Chemist** 

EW/lmb

Page I of  $\mathcal{L}$ 

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y
  The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0604839

Project:

Seattle Stormwater

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K050616-WB

Basis: NA

Test Notes:

Prep Analysis Dilution Date Date Result Analyte Method Method MRL Factor Extracted Analyzed Result Notes Oil and Grease, Total (HEM) **METHOD** 5.0 6/16/2006 6/16/2006 ND1664

K0604839phc kel - MB 6/19/2006

Page No.

## - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper and Packaging Inc

Project Name :

Seattle Stormwater

Project No.:

NA

Service Request: K0604839

Sample Name:

Roof Drain Method Blank Lab Code:

K0604839-001 K0604839-MB

Comments:

Annroved By

Date

669-7

| Columbia<br>Analytical<br>Services **C |           |             |                    |   | Cł     | <b>A</b>   | IN               | OF  | C                                       | US       | TC             | )D                                       | Y     |        |            |                      |  |            |      |                     | SR   | #:           | K  | de   | 04839          |
|--|-----------|-------------|--------------------|---|--------|------------|------------------|---|---|----------|----------------|--|-------|--------|------------|----------------------|--|------------|------|---------------------|--|--------------|--|--|----------------|
| An Employee - Owned Company            | 13        | 17 South 13 | th Ave. • Ke       | iso, WA 9                                     | 8626 • | (360)      | 577-72           | 22 •  | (800) 6                                 | 95-722   | 22x07          | • FAX                                    | (360) | 636-10 | 068        | P                    | AGE                                    | <u> </u>   | -    | OF                  | <u> </u>                                   |              | _co  | C #_   |                |
| PROJECT NUMBER                         | Stormo    | willer-     |                    |   |        | _/         |                  | '<br>/  | 7                                       | BIEXE    |                | 7  | 10    | 7      | 815140     | 7                    | 7-/                                    | 7          | 7    | Kui                 |  | 2905         | Τ,   | /  |                |
| PROJECT HANGER HUDERS                  | in        |             |                    |   |        | <i>7.</i>  | . /              |   |   | E/       | _ /            | /  |       | _/     | 6          |                      |  |            | _ /- |                     | ટ્ટ /                                      | 10/2         | /  |  | / / ==         |
| 5901 East Main                         | amal      | Wry So      | with i             | 500 JC 10 10 10 10 10 10 10 10 10 10 10 10 10 | 4-001K | ين بن      | 2/ .             | (S)   | <del>]</del> /                          | 0/3      |                | 1,664                                    | ` /   | 2/     | Z/2        | 9/~                  | /2                                     |            | 7 4  | ` <i>₹\</i> ≥       | ٠/   | 9/           | /  | /  | / / =          |
| Seattle WA                             | 4813      | 1 5         |                    |   |        | /'₹        | 7                | 88  | ì/                                      |          | 0/0            | ./.                                      | / 4   | ) & £  | .8751M     | SIWIS                | /ð                                     | / Š        | 198  | 3/2 3               |  | 3/           |  |  | / / [ ]        |
| CITY/STATE/ZIP                         |           |             |                    |   | /      | CONTAINTRE | /: /             | \$\overline{g}_{\overline{Q}}\overline{g}_{\overl | 80                                      | 19 S     |                | ( E ( )                                  |       |        | <i>1</i> ~ | 12/                  | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Hex-Chique | 33/  | Notice TK           | 40x 18 18 18 18 18 18 18 18 18 18 18 18 18 | /            | / .  | / /  | / / "          |
| E-MAIL ADDRESS WILLWICKSON             |           | Teava .     |                    |   | /      | ğ/         |                  |   | \$ 6 J                                  |          | 80/            | हें कें                                  | - / - | ~ ` /  |            | 2018<br>1018<br>1018 |  | _ /3       |      | ) . <del>Q</del> // | $\sigma I$                                 | /            | ′ /  | • /  | /              |
| 206 762-7170                           |           | 200         | 767-               | <u> 1442</u>                                  | NUMBEC | 5/         | Semivolatile     |   | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |          | 0 8 9 9        | \$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | S S   |        |            | 8/5                  | Cyanide C                              | ] /s       |      | <u>(</u> )          |  |              | _/   | /  | / 1            |
| World                                  |           |             |                    |   | ] 🔻    |            | 62.0             |   | 7/8                                     | S 13     | <u>\$</u> /~~; | \$\g^2                                   |       |        | PATS.      | Melals,              |  |            |      |                     | <sup>2</sup> /                             | /            | /  | /  | REMARKS        |
| SAMPLE T.D.                            | DATE      | TIME        | LAB I.D.           | MATRIX  | / ~    | <i> </i>   | / <del>"</del> – | % د /   | 140                                     |          | 70             | /º 4                                     | /48   | 10%    | 7          | /≥%                  | <i></i>                                | 19/        | /    | /-=                 | /  | <i> </i>     |  | /—   | HEMARKS        |
|  |           |             |                    |   |        | · ·        |                  |   |   |          |                |  |       |        |            |                      | ]                                      |            |      |                     |  |              | <u> </u>                                     |  |                |
| # 1 roof drain                         | 6/8/01    | 11:00       | 2                  |   | 1      |            |                  |   |   |          | 1              |  |       |        |            |                      |  |            |      |                     |  |              |  |  |                |
| # 2 conf drain                         | 6/8/06    | 11.00 20    | 1                  |   | 1      |            |                  |   |   |          |                |  |       |        |            |                      |  |            |      |                     |  |              |  |  |                |
| #3 roof drain                          | 618/06    | 11.000m     |                    |   | 1      | 1,63       |                  |   |   |          |                |  |       |        |            | 1                    |  |            |      |                     |  |              |  |  |                |
| 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1      | 21 21 2   | F           |                    |   |        |            |                  |   |   |          |                |  |       |        |            | 1                    |  |            |      |                     |  |              |  |  |                |
|  |           |             |                    |   |        |            |                  |   |   |          |                |  |       |        |            | $\neg \dagger$       |  |            |      |                     | <del> </del>                               |              | <b>†</b> —                                   | <del>                                     </del> |                |
|  |           |             |                    |   | -      |            | -                | _   |   |          |                |  |       |        |            | $\dashv$             | 一                                      |            |      |                     | -  | ╁            | ├  | <del> </del>                                     |                |
|  |           |             |                    | -   |        |            | ├                |   |   | _        | _              |  |       |        |            | $\dashv$             | $\dashv$                               |            |      |                     |  | ├─           | -  |  |                |
|  |           |             |                    | ļ   |        |            |                  |   | _                                       |          |                |  |       |        |            | -+                   | {                                      |            |      |                     | <u> </u>                                   | <del> </del> | <del> </del>                                 | ├─   |                |
|  |           |             | <u>.</u>           | <del> </del>                                  |        | ·          | -                |   |   |          |                |  |       |        | $\vdash$   |                      |  |            |      |                     |  |              |  |  |                |
|  |           | 11111       | 105 11505          |   |        | <u> </u>   | L                | l   | <u> </u>                                | <u> </u> |                |  |       | L      | Ш.         |                      |  |            |      | L                   | l  | L            | <u>.                                    </u> | L  | <u> </u>       |
| REPORT REQUIREME                       | ENTS      | P.O. #      | ICE INFOR          | MATIO   | ١ ١    | Circle     | e which          | metals  | are to                                  | be ana   | lyzed:         |  |       |        |            |                      |  |            |      |                     |  |              |  |  |                |
| I. Routine Report: N                   |           |             |                    |   |        | То         | tal Meta         | als: Al   | As                                      | Sb B     | a Be           | B Ca                                     | Cd    | Co (   | Cr Cu      | Fe                   | Pb N                                   | /lg M      | n Mo | Ni                  | K Ag                                       | Na           | Se S   | §r TI  | Sn V Zn Hg     |
| Blank, Surrogate, required             | as        |             |                    |   |        | Disso      | ived Me          | lais: Ai  | As                                      | Sb B     | а Ве           | ВС                                       | a Cd  | Co     | Cr Cu      | Fe                   | Pb N                                   | √lg M      | n Mo | NI                  | K A  | ) Na         | Se s   | Sr TI  | Sn V Zn Hg     |
| ·                                      | MCD       |             |                    |   |        |            | ICATE            |   |   |          |                |  |       |        |            |                      |  |            |      |                     |  |              |  |  | RCLE ONE)      |
| II. Report Dup., MS, required          | MSD as    |             | OUND REG           | UIREM<br>48 hr.                               | ENTS   | SPE        | CIAL             | NSTR  | UCTIO                                   | ONS/C    | MMO            | ENTS                                     | :<br> | ,      | 1          | 1                    |  |            | انت  | п.                  | ul.  | 1            | / : 1  | MI   | Mille A.       |
| III. Data Validation R                 | eport     | 24          |                    | _48 hr.                                       |        | 1          | 35+              |   | 7.5                                     | 20       | <b>^</b> (     | an                                       | d t   | ひょり    | oid        | ity.                 | $\alpha$                               | 5 (        | NEI  | η,                  | 417  | avir         | - 4  | υν( .  | Mile 14.       |
| (includes all raw o                    |           | 5 D         | ay<br>ndard (10-15 | working                                       | dave)  |            |                  |   |   |          |                |  |       |        |            | •                    |  |            |      |                     |  |              | •  |  | ļ              |
| IV. CLP Deliverable F                  | Report    |             | vide FAX Re        |   | ouy sj |            |                  |   |   |          |                |  |       |        |            |                      |  |            |      |                     |  |              |  |  |                |
| V. EDD                                 |           |             |                    |   |        | 1          |                  |   |   |          |                |  |       |        |            |                      |  |            |      |                     |  |              |  |  | ļ              |
|  |           | Re          | quested Rep        | ort Date                                      |        | _          |                  |   |   |          |                |  |       |        |            |                      |  |            |      |                     |  |              |  |  |                |
| MUHAA _                                | 1ED BY:   | 11'120'p1   | 20                 | La  | RECI   | No.        | вү:/             | /<br> /4/   | /                                       | 10       | TD             |  | REI   | INQL   | JISHEI     | DBY:                 |  |            |      |                     |  | RI           | ECEIV  | ED BY  | ' <del>.</del> |
| Signature                              | Date/fime | W FIDE      | Sion               | liure   | A      | 7,0        | ate/ /           | Tight.  | F                                       |          | Sig            | nature                                   | :     |        | Da         | te/Tim               | е                                      |            | - {  | Signa               | ature                                      |              |  | Date   | /Time          |
| Printed Name                           | Fimpare   | r-Park      | AddurPrint         | ou Name                                       |        | 421 F      | irm              | 41.   | ر<br>                                   | -        | Prir           | nted N                                   | ame   |        | Fir        | m                    |  |            |      | Printe              | ed Na                                      | me           |  | Firm   |                |
|  |           |             | 77                 |   |        |            |                  |   |   |          |                |  |       |        |            |                      |  |            |      |                     |  |              |  |  | RCOC #1 06/03  |

## Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

| PC | ES |
|----|----|
|    |    |

| Pro | oject/Client Service Request K06 O463  | 7            |                |
|-----|--|--------------|----------------|
| Со  | oler received with the and opened on 6/14/06 by Which  |              |                |
| ı.  | Were custody seals on outside of coolers?  | Y            | D              |
|     | If yes, how many and where?  |              |                |
| 2.  | Were costs seals intact?   | · Y          | Q              |
| 3.  | Were signature and date present on the custody seals?  | Y            | B              |
| 4.  | Is the shipper's airbill available and filed? If no, record airbill number: 52550487441        | Y            | (A)            |
| 5.  |  |              |                |
|     | Temperature of cooler(s) upon receipt: (°C)  |              |                |
|     | Temperature Blank: 246   |              |                |
|     | Were samples hand delivered on the same day as collection?                                     | Y            | 0              |
| 6.  | Were custody papers properly alled out (ink, signed, etc.)?                                    | $\bigcirc$   | И              |
| 7.  | Type of packing material great all pulls   |              |                |
| 8.  | Did all bottles arrive in good condition (unbroken)?   | Ŋ            | И              |
| 9.  | Were all bottle labels complete (i.e analysis, preservation, etc.)?                            | Ø            | N              |
| 10. | Did all bottle labels and tags agree with custody papers?                                      | 80           | N              |
| 11. | Were the correct types of bottles used for the tests indicated?                                | arphi        | N              |
| 12. | Were all of the preserved bottles received at the lab with the appropriate pH?                 | $\wp$        | N              |
| 13. | Were VOA vials checked for absence of air bubbles, and if present, noted below?                | <u> </u>     | N              |
| 14. | Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? | <u></u>      | И              |
| 15. | Did the bottles originate from CAS/K or a branch laboratory?                                   | <b>(2</b> )  | N              |
| 16. | Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? | <del>-</del> | <del>-}\</del> |
| 17. | Was C12/Res negative?  | <del>Y</del> | <del>N-</del>  |
| Exp | olain any discrepancies:   |              |                |
|     |  |              |                |
|     |  |              |                |
|     |  |              |                |
| KE: | SOLUTION:  |              |                |

Samples that required preservation or received out of temperature:

| Sample ID | Reagent | Volume | Lot Number  | Bottle Type    | Rec'd out of<br>Temperature | Initials |
|-----------|---------|--------|-------------|----------------|-----------------------------|----------|
|           |         |        |             |                |                             |          |
|           |         |        |             |                |                             | <u> </u> |
|           |         |        |             |                |                             |          |
|           |         |        | <del></del> | <del>-  </del> |                             | <u> </u> |
|           |         |        |             |                |                             |          |
|           |         |        |             |                |                             |          |
|           |         |        |             |                |                             | FEA      |

#### SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter):

2006 year an/Feb/Mar

Apr/May/Jun

Jul/Aug/Sep

Oct/Nov/Dec

Facility/Site Information

Mailing Information

LONGVIEW FIBRE SEATTLE
Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point      | foot drain to           | outfall 00       | 1               |                   |               |                |
|----------------------|-------------------------|------------------|-----------------|-------------------|---------------|----------------|
| There was no qua     | alifying storm event th | nis quarter so r | no values are e | ntered below      | v (see explan | ation)         |
| Quarterly Monitoring |                         | AVERAGE          | MAXIMUM         | UNITS             | Sample Type   | Events Sampled |
| Turbidity            | Consistent Attainment   | 2.7              |                 | NTU               | Grab          | ſ              |
| pН                   | Consistent Attainment   | 7.03             |                 | Standard<br>Units | 11            | 1              |
| Zinc (total)         | Consistent Attainment   | 109              |                 | μg/L              | 11            | 1              |
| Oil & Grease         | Consistent Attainment   | ND.              |                 | mg/L              | Grab          | 1              |

Monitoring associated with impaired waterbodies:

| Discharge Point <u>Loof drain to outfall</u> 001  |                       |         |         |                   |             |                |  |  |  |  |  |
|---|-----------------------|---------|---------|-------------------|-------------|----------------|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |                       |         |         |                   |             |                |  |  |  |  |  |
| Quarterly Monitoring  |                       | AVERAGE | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |
| pН  | Consistent Attainment | 7.03.   |         | Standard<br>Units | Grab        | /              |  |  |  |  |  |
| Solids, Total<br>Suspended  | Consistent Attainment | ND      |         | mg/L              | ′ '         | 1              |  |  |  |  |  |

| SE Mi          | CHELL  |             | 20     | 06   |
|----------------|--|-------------|--------|------|
|                | CIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)     | DATE: MO    | DAY    | YEAR |
| occe           | Matchell                                       | 306-        | 762-71 | 70   |
| GNA TÜRE OF FI | RINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE N | UMBER  |      |
| GNATURE OF FI  | RINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT | TELEPHONE N | UMBÉR  |      |

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0601919

Project Name:

Seattle Stormwater

Date Collected: 03/08/06

Project Number: NA

Sample Matrix: WATER Date Received: 03/10/06

Turbidity

Analysis Method: 180.1

Units: NTU

Test Notes:

Basis: NA

| Sample Name       | Lab Code     | MRL | MDL  | Dilution<br>Factor | Date/Time<br>Analyzed | Result | Result<br>Notes |
|-------------------|--------------|-----|------|--------------------|-----------------------|--------|-----------------|
| #1,2,3 Roof Drain | K0601919-001 | 0.2 | 0.06 | i                  | 03/10/06 15:50        | 2.7    |                 |
| Method Blank      | K0601919-MB  | 0.2 | 0.06 | 1                  | 03/10/06 15:50        | ND     |                 |

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0601919

Project Name:

Seattle Stormwater

Date Collected: 03/08/06

Project Number: NA

Sample Matrix: WATER

Analysis Method: 150.1

Date Received: 03/10/06

рΗ

Units: pH UNITS

·Basis: NA

Test Notes:

Dilution

Date/Time

Result

Sample Name

Lab Code

MRL MDL Factor

Analyzed

Notes Result

#1,2,3 Roof Drain

K0601919-001

03/10/06 19:53

7.03

#### **Analytical Report**

Client:

Matrix:

Longview Fibre Paper and Packaging Inc

Project Name:

Project No.:

Seattle Stormwater

Water

Service Request: K0601919

Date Collected: 03/08/06

Date Received: 03/10/06

Date Extracted: 03/10/06

Total Metals Units: ug/L (ppb)

Zinc Analyte: Copper Lead EPA Method: 6010B 6010B 6010B Method Reporting Limit: 10 50 10 Date Analyzed: 03/13/06 03/13/06 03/13/06

Sample Name Lab Code #1,2,3 Roof Drain K0601919-001 109 ND ND Method Blank K0601919-MB ND ND ND

Comments:

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0601919

Project:

Seattle Stormwater

Date Collected: 3/8/2006

Sample Matrix:

Water

Date Received: 3/10/2006

Oil and Grease

Sample Name:

#1,2,3 Roof Drain

Units: mg/L (ppm)

Lab Code:

K0601919-001

Basis: NA

Test Notes:

Prep

Analysis

Dilution

Date Date Method MRL MDL Factor Extracted Analyzed Result Result

Analyte

Method

1

3/13/2006 3/13/2006

Notes

Oil and Grease, Total (HEM)

METHOD

1664

5.0 0.64

ND

Approved By: 1\$22**/**020597p

K0601919phc mil - 1 3/14/2006

Date:

Analytical Report

Client:

Longview Fibre Paper and Packaging Inc

Service Request: K0601919

Project Name:

Seattle Stormwater

Date Collected: 03/08/06

Project Number: NA Sample Matrix:

WATER

Date Received: 03/10/06

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Basis: NA

Analysis Method: 160.2

Test Notes:

| Sample Name                       | Lab Code                    | MRL    | MDL    | Dilution<br>Factor | Date<br>Analyzed     | Result   | Result<br>Notes |
|-----------------------------------|-----------------------------|--------|--------|--------------------|----------------------|----------|-----------------|
| #1,2,3 Roof Drain<br>Method Blank | K0601919-001<br>K0601919-MB | 5<br>5 | 5<br>5 | 1<br>1             | 03/10/06<br>03/10/06 | ND<br>ND |                 |



•

March 15, 2006

Service Request No: K0601919

Mike Anderson Longview Fibre Paper and Packaging Inc 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on March 10, 2006. For your reference, these analyses have been assigned our service request number K0601919.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

NELAP Accredited

ACIL Seal of Excellence Award

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRLMDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case parrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprim of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

  The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct carbon range, but the clution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

<u> ოტტნ</u>3

Analytical Report

| Ci | ien | t: |
|----|-----|----|
| *  |     |    |

Longview Fibre Paper and Packaging Inc

Service Request: K0601919

Project:

Seattle Stormwater

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K060313-MB

Basis: NA

Test Notes:

Prep

Analysis

Dilution Method MRL MDL Factor Extracted Analyzed Result

Date Date

Result

Analyte

Method

Notes

**METHOD** 

1664

0.64

Oil and Grease, Total (HEM)

5.0

3/13/2006 3/13/2006

ND

Approved By: \_\_\_ \_Date: \_ IS22/020597ρ

K0601919phc.ml1 - MB 3/14/2006

| Columbia<br>Analytical   |               | CHAIN OF CUSTODY |              |              |            |              |          |            |                   |  | SR#:  |  |                  |   |                   |                   |          |             |              |   |   |  |  |          |   |         |
|--|---------------|------------------|--------------|--------------|------------|--------------|----------|------------|-------------------|--|---|--|------------------|---|-------------------|-------------------|----------|-------------|--------------|---|---|--|--|----------|---|---------|
| Services INC.  | 131           | 7 South 13t      | h Ave. • Kel | so, WA 9     | 8626 •     | (360)        | 577-72   | 22 • (     | 800) 6            | 95-722                                       | 2x07  | • FAX                                  | (360)            | 636-10  | )68               | P                 | AGE      |             |              | OF  |   | - <del></del>                                    | _ co   | C #_     | - <del></del>                                 |         |
| PROJECT NUMBER   | _             | ater             |              |              |            |              | 7        | /          | /<br>, /          | Brex.  | <i>[</i>  | 7                                      |                  | 7   | 81514[7]          | 7                 | 7        | 7           | 7 9          | Kur!  |   | 2080   | Τ,   | 7        | //  | I       |
| COMPANY/ADDRESS FIDER Paper  | raid.         | Parkag           | ing Inc      |              |            |              | ,/       | 297,GC     |                   | D (M)  |   | , 684 g                                |                  |   | Z Z Z             |                   |          |             |              | ->1->   |   |  | . /  |          |   |         |
| 5901 East Margin<br>Seattle WA   | nal h<br>1813 |                  | Mh_          |              |            | CONTAINERS   | /<br>- / | 250   B25  | 87                |  | Teen (FIC   | Ta CI                                  | Pesticios Conges |   | PAHS Tella D STIM | Metais, Total SIM | Nossia.  | Hex-Chron   |              | 70 dia 10 00 00 00 00 00 00 00 00 00 00 00 00 | \$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |  |  | / /      | / /   | 00      |
| E-MAIL ADDRESS MICHAELYSON & JOV PHOME 1 206) 762-7170 SAMPLER'S SIGNATURE | rgfibr        |                  | U<br>767-26  | 142          |            | ÷ /          | Satile O |            |                   | Fig. Cons.                                   | 15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05<br>15.05 |  |                  | 809<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14 |                   | 8370[]<br>70[2]   | Pero (   |             | 100 N. CO.   | Cilcle  | 17 02m                                    | ' /  | ' /  |          |   |         |
| SAMPLER'S SIGNATURE  |               |                  |              |              | NUMBER     | /            | SS.      |            | 1                 |  | 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10   |  |                  |   |                   | stais,            | ania     | 18          | 5/5°<br>S/5° |   | F /                                       |  |  | / -      |   | ļ       |
|  | DATE          | TIME             | LAB I.D.     | MATRIX       | 7-₹/       | /<br>·       | 100      | <br>\%     | [£0               | 100  | /0  | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 14.8             | 10,5  | - A               | / <del>×</del> ∞  | <u> </u> | ( <u>a)</u> | <u> </u>     | <u>// 2</u>                                   |   |  | <del>/</del>                                     | /        | REMA  | RKS     |
| #1 roof drain 7  | 8/06          | 4:20 pm          |              |              | i          | ·            |          |            |                   |  | 1   |  |                  |   |                   |                   |          |             |              |   |   | <u> </u>   | <u> </u>   |          |   |         |
| +2 roof drain 3  | 8/06          | 4:20zm           | ,            |              | 1          |              | ·        |            |                   |  |   |  |                  |   |                   |                   |          | 1_          |              |   |   | <u> </u>   |  |          |   |         |
| #3 raufdrain 3   | 18/6          | 4,20,012         |              |              | 1          |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   |  | L.   |          |   |         |
|  |               |                  |              |              |            | ,            |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   |  |  |          |   |         |
|  |               |                  |              |              |            |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   |  |  |          |   |         |
|  |               |                  |              |              |            |              |          |            |                   |  |   |  |                  |   |                   |                   |          | -           |              |   |   |  |  |          |   |         |
|  |               |                  |              |              |            |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   | †  |  |          |   |         |
|  |               |                  |              |              |            | -            |          |            |                   |  |   |  |                  | _   |                   | -                 |          |             |              |   | <del> </del>                              | ╁╌   | <u> </u>   | <u> </u> |   |         |
|  |               |                  |              |              |            |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   | <del> </del>                                     | _  | -        | <del> </del>                                  |         |
|  |               |                  |              |              | $\vdash$   | <i>7.</i> .  |          |            |                   |  |   | _                                      |                  |   |                   |                   |          |             |              |   | -   | <del>                                     </del> | <del>                                     </del> |          | <del>                                  </del> |         |
|  |               | INVO             | ICE INFOR    | MATIO        | ╌┤         | <u></u>      | <u> </u> |            |                   | <u>.                                    </u> |   |  | ىـــــا          | L   |                   |                   |          |             |              | <u> </u>                                      | L   | <u>.                                    </u>     | Щ.   | I        | L   |         |
| REPORT REQUIREMEN  | NTS           |                  |              |              |            |              | which    |            |                   |  |   |  |                  |   |                   | _                 |          |             |              |   |   |  |  |          |   |         |
| I. Routine Report: Mei Blank, Surrogate, as                                |               | Bill To:         |              |              | — 1        |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   | _   |  |  |          | Sn V Žn                                       |         |
| required   | ·             |                  |              |              | — <u>[</u> |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   |  | Se :   |          | Sn V Zr                                       |         |
| , II. Report Dup., MS, M   | ISD as        | TURNAR           | OUND REC     | UIREM        | ENTS       |              | CATE     |            |                   |  |   |  |                  | _   |                   |                   |          |             |              |   |   |  |  |          | A A L   | ·       |
| required   |               | 24 I             | hr. <u>`</u> | ,<br>_48 hr. |            | ٠٠ ـــــ     |          | <i>i</i> 0 | יייטט<br><b>ר</b> |  | a i   |  | Lu               | ict i   | dit               | u i               | 25       | W           | e ( ),       | , 4   | 110                                       | ink  | - Up   | びん       | Mike  | μ,      |
| III. Data Validation Rep<br>(includes all raw dat                          |               | 5 D              | ay           |              |            | - 1          | 251      | to         |                   | MI   | av  | THE                                    | 7 W              | , , .   | • • • •           | ¥                 |          |             | •            | ļ   |   |  | V  |          |   |         |
| IV. CLP Deliverable Re   |               |                  | ndard (10-15 | -            | days)      |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   |  |  |          |   |         |
| V. EDD   | ,,,,,,,,      | Pro              | vide FAX Re  | sults        |            |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   |  |  |          |   |         |
|  | [             | Re               | quested Rep  | ort Date     |            |              |          |            |                   |  |   |  |                  |   |                   |                   |          |             |              |   |   |  |  |          |   | i       |
| 1M1/1 / RELINQUISHE  | D BY:         | 4:35pm           | 1            |              | RECE       | IVED         | BY;      |            | IOU               | 0  |   |  | REL              | .INQU   | ISHE              | D BY:             |          |             |              |   |   | RI   | ECEIV  | ED BY    | <b>'</b> :                                    |         |
| I Sighature, A pa  | ate/Time      | Paper-L          | Signa        | ture/        | Blut       | _ <u>_</u> _ | ate/Tin  | ne         | 100               |  | Sigr  | nature                                 |                  |   | Da                | ite/Tim           | 10       |             |              | Signa   |   |  |  |          | Time  |         |
| Printed Name 5   | PKage         | My Jan           | Printe       | ed Name      | •          | F            | irm      |            |                   |  | Prin  | ted N                                  | ame              |   | Fli               | rm                |          |             |              | Print   | ed Na                                     | me   |  | Firm     | RCOC#   | 1 06/03 |

## Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

PC Ed W.

| Pro | oject/Client                          | mich for         | ne             | S                     | ervice Request I    | K06_ 1919                             | <del>}</del>     |                |     |
|-----|---------------------------------------|------------------|----------------|-----------------------|---------------------|---------------------------------------|------------------|----------------|-----|
|     | oler received on                      | ' ' ' '          |                | ed on                 | 5/20 by_            | VBlu                                  | li_              |                |     |
| ١.  | Were custody seals on                 | outside of coo   | lers?          |                       |                     |                                       |                  | Q              | N   |
|     | If yes, how many a                    |                  |                | Ifrat                 |                     |                                       |                  |                |     |
| 2.  | Were custody seals into               |                  | Solar          | V                     |                     |                                       |                  | (D)            | N   |
| 3.  | Were signature and dat                | te present on th | e custody sea  | 15?                   |                     |                                       |                  | Ø              | N   |
| 4.  | Is the shipper's airbill              | available and i  | filed? If no a | eçord airbill number: |                     |                                       |                  | Ø              | N   |
| 5.  | COC#                                  |                  |                |                       |                     |                                       |                  | _              |     |
|     | Temperature of cool                   | er(s) upon rec   | eipt: (°C)(*   | 2.6                   |                     |                                       | _ ~              |                |     |
|     | Temperature Blank:                    |                  |                | 31                    |                     |                                       |                  |                |     |
|     | Were samples hand del                 | ivered on the s  | ame day as iç  | ollection?            |                     |                                       |                  | Y              | 3   |
| 6.  | Were custody papers p                 | roperly filled o | ut (ink, signe | d, etc.)?             |                     |                                       |                  | $\mathfrak{D}$ | N   |
| 7.  | Type of pacture mater                 | ial present      |                | glywill               | - pmay              |                                       |                  |                | •   |
| 8.  | Did all bottle prive                  | in good condi    |                |                       |                     |                                       |                  | D              | N   |
| 9.  | Were all bottle bels c                |                  |                |                       |                     |                                       |                  | P              | N   |
| 10. |                                       |                  |                | -                     |                     |                                       |                  | (P             | N   |
| 11. |                                       |                  |                |                       |                     |                                       |                  | ψ<br>•         | N   |
| 12. | FOR THE SECOND                        |                  |                |                       | -                   |                                       |                  | Ø              | N   |
| 13. |                                       |                  |                |                       |                     |                                       |                  | ¥              | N   |
| 14. |                                       |                  |                |                       | if present, noted b | elow?                                 |                  | 4              | _ N |
| 15. | 9                                     |                  |                |                       |                     |                                       |                  | €              | N   |
| 16. |                                       |                  | eceived with   | >1/2 the 24hr, hold t | ime remaining fr    | om collection?                        |                  | ¥              | N   |
| 17. | •                                     |                  |                | •                     |                     |                                       |                  | Y              | N   |
| EX  | plain any discrepancies               | s:               |                |                       | <del></del>         | <u> </u>                              | ·                |                |     |
| _   |                                       |                  |                |                       |                     |                                       |                  |                |     |
|     |                                       | <del></del>      |                | <del></del>           |                     | <del></del>                           |                  |                |     |
| RE  | SOLUTION:                             |                  |                |                       |                     |                                       |                  |                |     |
| C   | nples that required pre               |                  |                | of to                 |                     |                                       |                  |                |     |
| Sai | npies mai required pre                | servation or r   | ecerved out    | or temperature:       |                     |                                       |                  |                |     |
|     | Sample ID                             | Reagent          | Volume         | Lot Number            | Bottle Type         | Rec'd out of<br>Temperature           | Initials         |                |     |
|     |                                       |                  |                |                       |                     |                                       |                  |                |     |
|     | · · · · · · · · · · · · · · · · · · · |                  |                |                       |                     |                                       |                  |                |     |
|     |                                       | _                |                | <del> </del>          |                     | · · · · · · · · · · · · · · · · · · · |                  |                |     |
|     |                                       |                  |                |                       |                     |                                       |                  |                |     |
| -   |                                       |                  |                |                       |                     |                                       |                  |                |     |
| -   |                                       |                  |                |                       |                     |                                       |                  |                |     |
| -   | <del></del>                           |                  |                | <del></del>           |                     |                                       |                  | _              |     |
| L   |                                       |                  |                |                       |                     | L                                     | <del>000</del> 1 | 2              |     |

## - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Paper and Packaging Inc

Project Name: Project No.: Seattle Stormwater

Service Request: K0601919

Sample Name:

#1,2,3 Roof Drain Method Blank

Lab Code:

K0601919-001 K0601919-MB

Comments:

#### SO3-000206D

## INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter):

Jan/Feb/Mar

Jul/Aug/Sep



Facility/Site Information

**Mailing Information** 

LONGVIEW FIBRE SEATTLE

Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point      | Roof drain to           | out fall 00     |                 |                   |               |                |
|----------------------|-------------------------|-----------------|-----------------|-------------------|---------------|----------------|
| There was no qua     | alifying storm event th | is quarter so r | no values are e | ntered belov      | w (see explan | ation)         |
| Quarterly Monitoring |                         | AVERAGE         | MAXIMUM         | UNITS             | Sample Type   | Events Sampled |
| Turbidity            | Consistent Attainment   | 2.2             |                 | NTU               | Grab          | 1              |
| рН                   | Consistent Attainment   | 7.39            |                 | Standard<br>Units | 11            | 1              |
| Zinc (total)         | Consistent Attainment   | 55              |                 | μg/L              | į 1           |                |
| Oil & Grease         | Consistent Attainment   | ND              |                 | mg/L              | Grab          |                |

Monitoring associated with impaired waterbodies:

| Discharge Point            |                        |                 |                 |                   |               |                |
|----------------------------|------------------------|-----------------|-----------------|-------------------|---------------|----------------|
| There was no qua           | lifying storm event th | is quarter so r | no values are e | ntered belov      | v (see explan | ation)         |
| Quarterly Monitoring       |                        | AVERAGE         | MAXIMUM         | UNITS             | Sample Type   | Events Sampled |
| pН                         | Consistent Attainment  | 7.39            |                 | Standard<br>Units | Grab          | 1              |
| Solids, Total<br>Suspended | Consistent Attainment  | ND              |                 | mg/L              | 1.0           | 1              |

| GEORGE MITO/HELL   | 12/22/05         |      |
|--|------------------|------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)    | DATE: MO / - DAY | YEAR |
| Teans Mitel  | 206-762-7171     |      |
| SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE NUMBER |      |
| NTS/EXPLANATIONS   |                  |      |

#### Analytical Report

Client:

Longview Fibre Company

Project Name:

Project Number: NA

Seattle Stormwater

Sample Matrix: WATER

Service Request: K0505395

Date Collected: 10/31/05 Date Received: 11/02/05

pН

Analysis Method 150.1

Test Notes:

Units: pH UNITS

Basis: NA

11/02/05

Dilution Date Result Sample Name Notes Lab Code MRL MDL Factor Analyzed Result

Roof Drain K0505395-001 7.39

#### Analytical Report

Client:

Longview Fibre Company Seattle Stormwater

Project Name:

Project Number: NA

Sample Matrix: WATER

Service Request: K0505395

Date Collected: 10/31/05

Date Received: 11/02/05

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Basis: NA

Analysis Method 160.2 Test Notes:

| Sample Name  | Lab Code     | MRL | MDL | Dilution<br>Factor | Date<br>Analyzed Result | Result<br>Notes |
|--------------|--------------|-----|-----|--------------------|-------------------------|-----------------|
| Roof Drain   | K0505395-001 | 5   | 5   | 1                  | 11/05/05 ND             |                 |
| Method Blank | K0505395-MB  | 5   | 5   | 1                  | 11/05/05 ND             |                 |

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Project Number: NA Sample Matrix: WATER

Seattle Stormwater

Service Request: K0505395 Date Collected: 10/31/05

Date Received: 11/02/05

Turbidity

Analysis Method: 180.1

Units: NTU

Test Notes:

Basis: NA

| Sample Name  | Lab Code     | MRL | MDL  | Dilution<br>Factor | , <b>A</b> | Date<br>nalyzed | Result | Result<br>Notes |
|--------------|--------------|-----|------|--------------------|------------|-----------------|--------|-----------------|
| Roof Drain   | K0505395-001 | 0.2 | 0.08 | J                  | 1          | 11/02/05        | 2.2    | J               |
| Method Blank | K0505395-MB  | 0.2 | 0.08 | 1                  | i          | 11/02/05        | 0.09   |                 |

## **Analytical Report**

Client:

Longview Fibre Company Seattle Stormwater

Project Name:

Project No.: Matrix:

NΑ Water

Service Request: K0505395 Date Collected: 10/31/05

Date Received: 11/02/05

Date Extracted: 11/11/05

Total Metals Units: ug/L (ppb)

|              | Analyte:                | Copper   | Lead     | Zinc     |
|--------------|-------------------------|----------|----------|----------|
|              | EPA Method:             | 6010B    | 7421     | 6010B    |
|              | Method Reporting Limit: | 10       | 2.0      | 10       |
|              | Date Analyzed:          | 11/14/05 | 11/22/05 | 11/14/05 |
|              |                         |          |          | ·        |
| Sample Name  | Lab Code                |          |          |          |
| Roof Drain   | K0505395-001            | ND       | ND       | 55       |
| Method Blank | K0505395-MB             | ND       | ND       | ND       |

Comments:

Analytical Report

Client:

Longview Fibre Company

Service Request: K0505395

Project:

Seattle Stormwater

Date Collected: 10/31/2005

Sample Matrix:

Water

Date Received: 11/2/2005

Oil and Grease

Sample Name:

Roof Drain

Units: mg/L (ppm)

Lab Code:

K0505395-001

Basis: NA

Test Notes:

Prep Analysis Dilution Date Date Result Analyte Method Method MRL MDL Factor Extracted Analyzed Result Notes **METHOD** 1664 5.0

Oil and Grease, Total (HEM)

0.64

11/14/2005 11/15/2005

J

11/18/05 Approved By: 1522/010597p

K0505395phc.mel + 1 t1/18/2005

Analytical Report

Client:

Longview Fibre Company

Service Request: K0505395

Project:

Seattle Stormwater Water

Date Collected: NA

Sample Matrix:

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K051114-WB

Basis: NA

Test Notes:

Analyte

Prep Method Analysis

Dilution

Date Method MRL MDL Factor Extracted Analyzed Result

Date

Result Notes

Oil and Grease, Total (HEM)

**METHOD** 

1664

5.0 0.64

11/14/2005 11/15/2005

Approved By:

K0505395phc.mel - MB I I/18/2005



December 1, 2005

Service Request No: K0505395

Mike Anderson Longview Fibre Company 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on November 2, 2005. For your reference, these analyses have been assigned our service request number K0505395.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

**S** \_\_\_ f

Ed Wallace

Project Chemist

EW/jeb

Page 1 of

**6** 6 **6** 6

**NELAP** Accredited

ACIL Seal of Excellence Award

100% Recycled

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D . The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the clution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y
  The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

| Client :<br>Project Name :<br>Project No. : | Longview Fibre Company<br>Seattle Stormwater<br>NA | Service Request: K0505395                        |       |  |  |  |
|---|--|--|-------|--|--|--|
|   |  |  | · ·   |  |  |  |
|   | Sample Name :<br>Roof Drain<br>Method Blank        | <u>Lab Code :</u><br>K0505395-001<br>K0505395-MB |       |  |  |  |
|   |  |  |       |  |  |  |
|   |  |  |       |  |  |  |
|   | ·  |  |       |  |  |  |
|   |  |  |       |  |  |  |
|   |  |  |       |  |  |  |
|   |  | ·  | ·     |  |  |  |
| Comments:                                   |  |  | · .   |  |  |  |
| Approved By:                                | Emit-  | Date: 11/28/05                                   | 00007 |  |  |  |

| Columbia<br>Analytical   | CHAIN OF CUSTODY   | SR#: 10505395                        |
|--|--|--------------------------------------|
| Services NC An Employee - Gwined Company  1317 South 13th Ave. • Kelso, WA | 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068 PAGE   | OF COC #                             |
| PROJECT NUMBER   | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  |                                      |
| PROJECT MANAGER COMPANYADDRESS COMPANYADDRESS                              |  |                                      |
| Longview Fibre Lo  | CONTAINERS   CON |                                      |
| 5901 East Marginal Chy South   |  |                                      |
| E-MIL ADDRESS WI CELL COURT OF COUR  | ER OF CONTAINERS  |
| PHONE 200 767-2170 PAX 200 767-244   |  |                                      |
| SAMPLERIG RIGHAY JURE  | NUMBER   N | REMARKS                              |
| SAMPLE I.D. DATE TIME LAB I.D. MATRI                                       |  | REMARKS                              |
| #1 roof drain 10/31/05 /Upm  |  |                                      |
| # 2 roof drain 9/2/05 10pm   |  |                                      |
| # 3 ros f draw 1/31/05 /Com  |  |                                      |
|  |  |                                      |
|  |  |                                      |
|  |  |                                      |
|  |  |                                      |
|  | 5.   |                                      |
|  |  |                                      |
|  |  |                                      |
| INVOICE INFORMATION  | ON Circle which metals are to be analyzed;   |                                      |
| REPORT REQUIREMENTS P.O. #   | Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe (Pb) Mg M   | In Mo Ni K Ag Na Se Sr Tl Sn V Æn Hg |
| I. Routine Report: Method Blank, Surrogate, as                             | Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg N   |                                      |
| required   | *INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NO   |                                      |
| II. Report Dup., MS, MSD as TURNAROUND REQUIRE required                    | MENTE  | ,                                    |
| 24 hr48 hr   | Please test turbity as well,   | thanks Nike H.                       |
| (includes all raw data)  —_5 Day   | in days)   |                                      |
| IV. CLP Deliverable Report Provide FAX Results                             |  |                                      |
| V. EDD   |  |                                      |
| Requested Report Date  | / 1 1  |                                      |
| RELINQUISHED BY: 10'15   | RECEIVED BY:  RELINQUISHED BY:   | RECEIVED BY:                         |
| Signature Date/Time Gignature  | Date/Time Date/Time  | Signature Date/Time                  |
| Finderson Tongview hore Winter Wan   | We Firm Printed Name Firm  | Printed Name Firm                    |

RCOC #1 06/03

# Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

| PC | Ta | W |  |
|----|----|---|--|
|    |    |   |  |

| Proj    | ject/Client      | lanzner      | who           |               |                         | _Service Request 1     | (05_ <i>05</i> 5 | 25       |                   |              |
|---------|------------------|--------------|---------------|---------------|-------------------------|------------------------|------------------|----------|-------------------|--------------|
| Cod     | oler received or | 1            | Wher          | and ope       | ened on uhir            | by                     | Much             |          |                   |              |
| l.      | Were custody s   |              |               |               | 1 Code                  | ·                      |                  |          | Ø                 | N            |
|         |                  |              | where?        |               | 1-81 des                |                        |                  |          | _                 |              |
| 2.      | Were custody s   |              |               |               |                         |                        |                  |          | Ø                 | N            |
| 3.      | Were signature   | and date p   | resent on th  | e custody s   | eals?                   |                        |                  |          | ₩                 | N            |
| 4.      | Is the shipper's | airbill ava  | ilable and f  | filed? If no  | , record airbill numbe  | er:                    |                  |          | Ø                 | N            |
| 5.      | COC#             |              |               |               |                         |                        |                  |          |                   |              |
|         | Temperature      | of cooler(s  | ) upon rec    | eipt: (°C)    | <u>4.2</u>              | -                      |                  |          |                   |              |
|         | Temperature      | Blank:       | (°C)          |               | 3.7                     |                        | <del></del>      |          |                   |              |
|         | Were samples h   | and delive   | red on the s  | ame day as    | collection?             |                        |                  |          | Y                 | (B)          |
| 6.      | Were custody p   | apers prop   | erly filled o | ut (ink, sigi | ned, etc.)?             | ŗ                      |                  |          | 8                 | N            |
| 7.      | Type of packing  | g material p | oresent       |               | glynds.                 | bround                 |                  |          |                   |              |
| 8.      | Did all bottles  | arrive in g  | ood condit    | ion (unbro    | ken)?                   | ı                      |                  |          | Ð                 | N            |
| 9.      | Were all bottle  | labels com   | plete (i.e an | alysis, pres  | ervation, etc.)?        |                        |                  |          | Ø                 | N            |
| 10.     | Did all bottle l | abels and t  | ags agree w   | ith custody   | papers?                 | •                      |                  |          | Y                 | N            |
| 11.     | Were the corr    | ect types o  | of bottles us | sed for the   | tests indicated?        |                        |                  |          | W                 | N            |
| 12.     | Were all of the  | preserved    | bottles rece  | ived at the   | lab with the appropri   | ate pH?                |                  |          | $\widehat{arphi}$ | N            |
| 13.     | Were VOA via     | ls checked   | for absence   | of air bubl   | bles, and if present, n | oted below?            |                  |          | . <del>Y</del>    | - N          |
| 14.     | Were the 1631    | Mercury b    | ottles check  | ced for abse  | nce of air bubbles, a   | nd if present, noted b | elow?            |          | - <del>Y</del>    | N            |
| 15.     | Did the bottles  | originate f  | rom CAS/K     | or a branc    | h laboratory?           | -                      |                  |          | <b>\$</b>         | N            |
| 16.     | Are CWA Mic      | robiology    | samples re    | ceived with   | h >1/2 the 24hr. hold   | d time remaining fr    | om collection?   |          | Ŷ                 | N            |
| 17.     | Was C12/Res r    |              | •             |               |                         |                        |                  |          | 4                 | <del>N</del> |
| Exp     | lain any discre  |              | -             |               | ··········              |                        |                  |          |                   |              |
|         |                  |              |               |               |                         |                        |                  |          |                   |              |
|         |                  |              |               |               |                         |                        |                  |          |                   |              |
|         |                  |              |               |               |                         | <del></del>            |                  |          |                   |              |
| RES     | SOLUTION:        |              |               |               |                         |                        |                  |          |                   |              |
| Sam     | nples that requi | red preser   | vation or r   | eceived or    | ut of temperature:      |                        |                  |          |                   |              |
|         |                  |              |               |               |                         |                        | Rec'd out of     |          |                   |              |
|         | Sample ID        | )            | Reagent       | Volume        | Lot Number              | Bottle Type            | Temperature      | Initials |                   |              |
| L       |                  |              |               |               |                         |                        |                  |          |                   |              |
| <u></u> |                  |              |               |               |                         |                        |                  |          |                   |              |
|         |                  |              |               |               |                         |                        |                  |          |                   |              |
|         |                  |              |               |               |                         |                        |                  |          |                   |              |
| -       |                  |              |               | -             |                         |                        |                  |          |                   |              |
| -       | <del></del>      |              |               |               | <del></del>             |                        |                  |          |                   |              |

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA

Sample Matrix: WATER Service Request: K0503512

Date Collected: 08/29/05

Date Received: 08/31/05

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Basis: NA

Analysis Method 160.2 Test Notes:

| Sample Name         | Lab Code     | MRL | MDL | Dilution<br>Factor | Date<br>Analyzed Result | Result<br>Notes |
|---------------------|--------------|-----|-----|--------------------|-------------------------|-----------------|
| #1,#2,#3 Roof Drain | K0503512-001 | 5   | 5   | 1                  | 09/01/05 7              |                 |
| Method Blank        | K0503512-MB  | 5   | 5   | 1                  | 09/01/05 ND             |                 |

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Project Number: NA

Sample Matrix:

WATER

Seattle Stormwater

- Service Request: K0503512

Date Collected: 08/29/05

Date Received: 08/31/05

Turbidity

Units: NTU

Analysis Method 180.1

Basis: NA

Test Notes:

| Sample Name                         | Lab Code                    | MRL        | MDL          | Dilution<br>Factor | Date<br>Analyzed     | Result    | Result<br>Notes |
|-------------------------------------|-----------------------------|------------|--------------|--------------------|----------------------|-----------|-----------------|
| #1,#2,#3 Roof Drain<br>Method Blank | K0503512-001<br>K0503512-MB | 0.2<br>0.2 | 0.08<br>0.08 | 1                  | 08/31/05<br>08/31/05 | 9.2<br>ND |                 |

#### Analytical Report

Client:

Project:

Longview Fibre Company

Seattle Stormwater

Service Request: K0503512

Date Collected: 8/29/2005

Sample Matrix:

Water

Date Received: 8/31/2005

Oil and Grease

Sample Name:

Lab Code: Test Notes: #1,#2,#3 Roof Drain

K0503512-001

Units: mg/L (ppm)

Basis: NA

Analyte

Prep Method

1664

Analysis

5.0 0.64

Dilution

9/8/2005

Date

Method MRL MDL Factor Extracted Analyzed Result Notes

Result

Oil and Grease, Total (HEM)

METHOD

9/7/2005

Date

7.9

\_\_ Date: <u>040</u>805 Approved By: 1S22/020597p

K0503512phc jwl - 1 9/8/2005

Page No.:

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Project Number: NA

Seattle Stormwater

Sample Matrix: WATER

Service Request: K0503512

Date Collected: 08/29/05

Date Received: 08/31/05

pН

Units: pH UNITS

Basis: NA

Analysis Method 150.1 Test Notes:

Sample Name

#1,#2,#3 Roof Drain

Lab Code

K0503512-001

MRL MDL Factor

Dilution

Date Analyzed

Result Notes Result

08/31/05

7.40



September 9, 2005

Service Request No: K0503512

Mike Anderson Longview Fibre Company 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on August 31, 2005. For your reference, these analyses have been assigned our service request number K0503512.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

CC:

Page 1 of 1

Hank Rakoz, Longview Fibre

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

  The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Service Request: K0503512

Project No.:

Project Name: Seattle Stormwater

| Sample No.           | Lab Sample ID. |
|----------------------|----------------|
| Batch QCD            | K0502890-001D  |
| Batch QCS            | K0502890-001S  |
| #1,#2,#3 Roof Drain  | K0503512-001   |
| #1,#2,#3 Roof DrainD | K0503512-001D  |
| #1,#2,#3 Roof DrainS | K0503512-001S  |
| Method Blank         | K0503512-MB    |

| Were  | ICP interelement corrections applied?  |              | Yes/No | YES |  |
|-------|--|--------------|--------|-----|--|
| Were  | ICP background corrections applied?  |              | Yes/No | YES |  |
|       | If yes-were raw data generated before application of background corrections? |              | Yes/No | NO  |  |
| Comme | ents:  | <del> </del> |        |     |  |
|       |  |              |        |     |  |
|       |  |              |        |     |  |
|       |  |              |        |     |  |
|       |  |              |        |     |  |
| Signa | ture:  | Date:        | 9905   |     |  |

COVER PAGE - IN

. 00008

-1-

# INORGANIC ANALYSIS DATA SHEET

Client:

Longview Fibre Company

Service Request: K0503512

Project No.: NA

Date Collected: 08/29/05

Project Name: Seattle Stormwater

Date Received: 08/31/05

Units: µG/L

Basis: NA

Matrix:

WATER

Sample Name: #1,#2,#3 Roof Drain

Lab Code: K0503512-001

| Analyte | Analysis<br>Method | MRL  | MDL | Dil. | Date<br>Extracted | Date<br>Analyzed | Result | С | Q |
|---------|--------------------|------|-----|------|-------------------|------------------|--------|---|---|
| Copper  | 6010B              | 10.0 | 8.0 | 1    | 8/31/05           | 9/7/05           | 110    |   |   |
| Lead    | 7421               | 2.0  | 0.3 | 1    | 8/31/05           | 9/1/05           | 1.4    | В |   |
| Zinc    | 6010B              | 10.0 | 2.0 | 1    | 8/31/05           | 9/7/05           | 353    |   |   |

% Solids: 0.0

Comments:

-1-

# INORGANIC ANALYSIS DATA SHEET

Client:

Longview Fibre Company

Service Request: K0503512

Project No.: NA

Date Collected:

...,... .... ....

\_\_\_\_\_

Project Name: Seattle Stormwater

Date Received:

Matrix: WATER

Units: µG/L

Basis: NA

Sample Name: Method Blank

Lab Code: K0503512-MB

| Analyte | Analysis<br>Method | MRL  | MDL | Dil. | Date<br>Extracted | Date<br>Analyzed | Result | С | Q |
|---------|--------------------|------|-----|------|-------------------|------------------|--------|---|---|
| Copper  | 6010B              | 10.0 | 8.0 | 1    | 8/31/05           | 9/3/05           | 8.0    | U |   |
| Lead    | 7421               | 2.0  | 0.3 | 1    | 8/31/05           | 9/1/05           | 0.3    | U |   |
| Zinc    | 6010B              | 10.0 | 2.0 | 1    | 8/31/05           | 9/3/05           | 2.0    | U |   |

% Solids: 0.0

Comments:

0.0010

- 5a -

## SPIKE SAMPLE RECOVERY

Client:

Longview Fibre Company

Service Request: K0503512

Project No.:

Units: pg/L

Project Name: Seattle Stormwater

Basis: NA

Matrix:

WATER

% Solids: 0.0

Sample Name: #1, #2, #3 Roof DrainS

Lab Code: K0503512-001S

| Analyte | Control<br>Limit %R | Spike<br>Result | С | Sample<br>Result | С | Spike<br>Added | 8R | Q | Method |
|---------|---------------------|-----------------|---|------------------|---|----------------|----|---|--------|
| Lead    | 62 - 123            | 37.8            |   | 1.4              | В | 40.0           | 91 |   | 7421   |

An empty field in the Control Limit column indicates the control limit is not applicable.

.00011

- 5a -

## SPIKE SAMPLE RECOVERY

Longview Fibre Company

Service Request: K0503512

Project No.:

Units: µg/L

Project Name: Seattle Stormwater

Basis: NA

Matrix:

WATER

% Solids: 0.0

Sample Name: Batch QCS

Lab Code: K0502890-001S

| Analyte | Control<br>Limit %R | Spike<br>C<br>Result | Sample<br>Result | С | Spike<br>Added | 8R  | Q | Method |
|---------|---------------------|----------------------|------------------|---|----------------|-----|---|--------|
| Copper  | 84 - 117            | 256                  | 8.0              | U | 250            | 102 |   | 6010B  |
| Zinc    | 90 - 111            | 491                  | 2.2              | В | 500            | 98  |   | 6010B  |

An empty field in the Control Limit column indicates the control limit is not applicable.

# **METALS** -6-DUPLICATES

Client:

Longview Fibre Company

Service Request: K0503512

Project No.:

Units: pg/L

Project Name: Seattle Stormwater

Basis: NA

Matrix:

WATER

% Solids: 0.0

Sample Name: #1, #2, #3 Roof DrainD

Lab Code: K0503512-001D

| Analyte | Control<br>Limit(%) | Sample (S) | ·c | Duplicate (D) | С | RPD | Q | Method |
|---------|---------------------|------------|----|---------------|---|-----|---|--------|
| Lead    |                     | 1.4        | В  | 1.5           | В | 12  |   | 7421   |

# METALS - 6 DUPLICATES

Client:

Longview Fibre Company

Service Request: K0503512

Project No.:

Units: pg/L

Project Name: Seattle Stormwater

Basis: NA

Matrix:

WATER

% Solids: 0.0

Sample Name:Batch QCD

Lab Code: K0502890-001D

| Analyte | Control<br>Limit(%) | Sample ( | (S) | С | Duplicate | (D) | С | RPD   | Ω | Method |
|---------|---------------------|----------|-----|---|-----------|-----|---|-------|---|--------|
| Copper  |                     |          | 8.0 | ט | •         | 8.0 | U |       |   | 6010B  |
| Zinc    |                     |          | 2.2 | В |           | 2.0 | Ū | 200.0 |   | 6010B  |

An empty field in the Control Limit column indicates the control limit is not applicable.

- 7 -

# LABORATORY CONTROL SAMPLE

Client:

Longview Fibre Company

Service Request: K0503512

Project No.:

Project Name: Seattle Stormwater

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

|         | Aqueou | ıs ug/L |     | Solid (mg/kg) |       |    |        |    |  |  |  |
|---------|--------|---------|-----|---------------|-------|----|--------|----|--|--|--|
| Analyte | True   | Found   | 8R  | True          | Found | С  | Limits | 8R |  |  |  |
| Copper  | 625    | 676     | 108 |               |       | 11 |        |    |  |  |  |
| Lead    | 25.0   | 23.8    | 95  |               | 1     | TT |        |    |  |  |  |
| Zinc    | 1250   | 1300    | 104 |               |       |    |        |    |  |  |  |

| Columbia<br>Analytical<br>Services (MC. |              |                |                    |                | CH       | ΙΑΙ                     | N C                   | F         | CUS                                      | STO  | )<br>D            | Y              |  |                   |                   |                 |            |      | 05         | SR  | #: <i>_/</i> | 160      | <u> </u> | 35/2     | <u> </u> |
|---|--------------|----------------|--------------------|----------------|----------|-------------------------|-----------------------|-----------|--|--|-------------------|----------------|--|-------------------|-------------------|-----------------|------------|------|------------|---|--------------|----------|----------|----------|----------|
| An Employee - Owned Company             | 13           | 17 South 13    | h Ave. • Ke        | lso, WA 9      | 8626 •   | (360)                   | 577-7222              | • (800    | ) 695-7:                                 | 222x07   | • FAX             | (360)          | 636-10   | 890               | P                 | AGE             |            |      | OF         | $\overline{}$                             | <del></del>  | _00      | C #_     |          |          |
| PROJECT NAME Seat-Le                    | Story        | nuater         |                    |                |          | -/                      | 7                     | 7         | 7  | 7  | Τ,                |                | 7  | 81514             | 1                 | 7               | 7          | 7    | (3)<br>(3) |   | 20867        | T: /     | 1        | / /      | <b>6</b> |
| COMPANY/ADDRESS LCTANY/EU FID           | LEASON       | `\             |                    |                |          | $\exists_{\mathscr{Z}}$ |                       |           | BIE                                      |  |                   | 0.100          |  |                   |                   |                 |            |      |            |   | $\sim L$     |          | -/       |          | 000      |
| 5901 East N                             | largini      | I like         | 2 Sout             | (              |          | TAINE /                 |                       |           | 9021<br>Peerl                            |  | 1662              |                | es es  | A 12 0            |                   | solve,          | Hex-Chings | 000  |            | \$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |              |          |          | / / '    | _        |
| E-MAIL ADDRESS PRICE SUN                |              | 734.<br>Wá hik | 12 , ('/II         | n              | -/       | § /                     |                       |           | . S. |  |                   | [ ]<br>[       | 4 4 7 € 5 € 5 € 5 € 5 € 5 € 5 € 5 € 5 € 5 €      |                   | 8310CZ            | 1 d             | , ž        |      |            | () ( <del>)</del>                         | / /          | / /      | / /      | ' /      |          |
| SAMPLERIS SIGNALLING                    | 4/1          | 100            |                    | -,24           | 12/ 13/  | CONTAINERS              | emivolatile<br>625 [] |           | Gas Darbons (                            | ON THE PROPERTY OF THE PROPERT | 168/4<br>188/28/4 | Shicioes [7]   |  | PAHS TellaD 8151M | etals, 70         | Cyanide Cyanide |            |      |            | ο /<br>Σ                                  |              |          |          |          |          |
| SAMPLE I.D.                             | DATE         | TIME           | LAB I.D.           | MATRIX         | 7_₹      | /                       | 100 1                 | 2.8/Z     | 6/4                                      | <u> 7°</u>   | \Q.4              | 10.8           | 100  | / ~               | \ <del>\$</del> € | 70              | 10         | /2 1 | <u> </u>   | /   | <u> </u>     |          | <u> </u> | REMAR    | KS       |
| 1 root draw                             | 8/2/         | 5-3,45         |                    |                | 1        | <i>[4]</i> (4)          |                       |           |  | 1.   |                   |                |  |                   |                   |                 |            |      |            |   | <u> </u>     |          |          |          |          |
| 12 real dain                            | 4/29/05-     | 3.45<br>3m     |                    |                | ł.       |                         |                       |           |  | -  |                   |                |  |                   | 1                 |                 |            |      | -          | -   | -            |          | ļ        |          |          |
| 2 CEGF CHAIN                            | 1.705        | <u>sm</u>      | <del></del>        |                | •        |                         |                       | $\top$    | +-                                       |  |                   |                | _  |                   |                   |                 |            |      |            |   |              |          |          |          | $\neg$   |
| #3 roofdrain                            | 6/34/05      | 3.45m          |                    |                |          |                         |                       |           |  |  |                   |                |  |                   |                   |                 | 1          |      |            |   |              |          |          |          |          |
|   | ļ            | ļ              |                    |                |          |                         |                       |           | -  | <b>↓</b> —   | -                 |                | ļ  |                   |                   |                 |            |      |            | <u> </u>                                  |              |          |          | !<br>    |          |
| ·                                       |              |                |                    | -              |          |                         |                       | +         |  |  |                   | -              |  |                   |                   |                 |            |      |            |   | _            | -        | -        |          |          |
|   | <del> </del> |                |                    |                |          | 8 1                     | _                     | _         |  | +-   |                   |                |  |                   |                   |                 |            |      |            |   | -            | <b> </b> |          |          |          |
|   | <b> </b>     |                |                    |                |          |                         |                       | $\neg$    |  | 1  | ļ                 |                | <del>                                     </del> |                   | -                 |                 |            |      |            |   |              | 1        |          |          |          |
| REPORT REQUIREM                         | L            | H              | ICE INFOR          |                | ,        |                         | which me              | etals are | lo be a                                  | nalyzed:   | 1                 |                | <u>-</u>   | L                 | لــــا            |                 |            | ·    | L          |   | I            | J        | L        | ·        |          |
| I. Routine Report:                      |              | N =            |                    |                |          | Tot                     | al Motals:            | Al A      | s Sb                                     | Ba Be  | 8 Ca              | ı Cd           | Co   | or PC)            | Fe/               | Pb) N           | ∕lg M      | n Mo | Ni         | K Ag                                      | Na Na        | Se S     | Br Tl    | sn v Å   | Hg       |
| Blank, Surrogate                        |              | Bill 10:       |                    |                |          |                         |                       |           |  |  |                   |                |  |                   |                   |                 |            |      |            |   |              |          |          | Sn V Zn  |          |
| periuper                                |              | L              |                    |                | _ [      | *IND                    | CATE S                | TATE      | HYDRO                                    | CARB   | ON PI             | ROCE           | DURE   | : Ak              | CA                | WI              | NÓ         | RTHW | /EST       | ОТН                                       | ER:_         |          | _ (CIF   | CLE ONE) |          |
| II. Report Dup., MS required            | , MSD as     | TURNAF         | OUND RE            | QUIREM         | ENTS     |                         | CIAL INS              |           |  |  |                   |                |  |                   |                   |                 |            |      |            |   |              |          |          | -        |          |
| III. Data Validation i                  | Benort       | 24             |                    | 48 hr.         |          | ſ                       | Pleas                 | ېپا د     | + +                                      | irba   | tu a              | 3 <b>\$</b> (. | λJe/.  | 1.                | Hui               | au (c           | i i la     | eri  | 1          | Ack                                       | e A          | ١,       |          |          |          |
| (includes all raw                       |              |                | ay<br>ndard (10-15 | working        | davs)    | <b>'</b>                | - 14.46               | _ ,_,     | . , .                                    |  | }                 | _              | - •  | •                 |                   |                 |            |      | ′          | - · , K                                   |              | -        |          |          |          |
| IV. CLP Deliverable                     | Report       |                | vide FAX Re        | •              | ,-,      |                         |                       |           |  |  |                   |                |  |                   |                   |                 |            |      |            |   |              |          |          |          |          |
| V. EDD                                  |              | De             | equested Rep       | ort Date       |          |                         |                       |           |  |  |                   |                |  |                   |                   |                 |            |      |            |   |              |          |          |          |          |
| ALIAA RELINQUIS                         | HED BY:      | )              |                    | 1              | REGE     | IVED                    | Ву                    |           | 1230                                     |  |                   | REL            | LINQL  | JISHE             | D BY:             |                 |            | Ţ    |            |   | RE           | CEIV     | ED BY    |          |          |
| Şignature ı                             | Date/Time    | 5 .3 1570 W    | \ Sian             | MM.e<br>alure) | e f á    | 12 July<br>D            | ate/Time              | 5/15/g    | 25                                       | Sig  | nature            | ,              | ••   | – <del>D</del> a  | ite/Tim           | ne              |            |      | Signa      | ature                                     | _            |          | Date     | /Time    | _        |
| Printed Name                            | Firm Firm    | ew fibre (     | Print              | d Name         | <u> </u> | F                       | نمس<br>irm            | 25        |  |  | nted N            |                |  | F                 | rm                |                 |            |      | Printe     | ed Na                                     | me           |          | Firm     |          | —        |
|   |              |                | 1                  |                |          | <del></del>             |                       |           |  |  |                   |                |  |                   |                   |                 |            |      |            |   |              |          |          | RCOC #1  | 06/03    |

#### Columbia Analytical Services Inc. Cooler Receipt and Preservation Form Project/Client Work Order K05 1)17 Cooler received on and opened on Were custody seals on outside of coolers? (P) Ν If yes, how many and where? Were custody seals intact? 2. N 3. Were signature and date present on the custody seals? N Is the shipper's airbill available and filed? If no, record airbill number: 53134537264 4. N COC# 5. Temperature of cooler(s) upon receipt: (°C) Temperature Blank: (°C) Were samples hand delivered on the same day as collection? Were custody papers properly filled out (ink, signed, etc.)? N 6. Type of packing material present HAND ME 7. Did all bottles arrive in good condition (unbroken)? 8. N 9. Were all bottle labels complete (i.e analysis, preservation, etc.)? N Did all bottle labels and tags agree with custody papers? N 10. 11. Were the correct types of bottles used for the tests indicated? N Were all of the preserved bottles received at the lab with the appropriate pH? 12. Were VOA vials checked for absence of air bubbles, and if present, noted below? 13. Did the bottles originate from CAS/K or a branch laboratory? N Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? 16. Was C12/Res negative? N Explain any discrepancies: RESOLUTION: OK TO text only Sample Samples that required preservation or received out of temperature: Rec'd out of Reagent Sample ID Volume Lot Number Bottle Type Temperature Initials

#### SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

 $\begin{tabular}{ll} MONITORING\ PERIOD\ for\ (year/quarter): \\ \end{tabular}$ 

2005 Year

Jan/Feb/Mar



Jul/Aug/Sep

Oct/Nov/Dec

Facility/Site Information

LONGVIEW FIBRE SEATTLE Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

**Mailing Information** 

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point Foot drain to outtall a   |
|---|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |

| Quarterly Monitoring |                       | AVERAGE     | MAXIMUM   | UNITS             | Sample Type | Events Sampled |
|----------------------|-----------------------|-------------|-----------|-------------------|-------------|----------------|
| Turbidity            | Consistent Attainment | See consmes | 15        | NTU               | Grab        | 1              |
| рН                   | Consistent Attainment | 7.33        |           | Standard<br>Units |             | . 1            |
| Zinc (total)         | Consistent Attainment | 76.5        |           | μg/L              |             | 1              |
| Oil & Grease         | Consistent Attainment | :70-sec     | comments* | mg/L              | Grab        | 1              |

Monitoring associated with impaired waterbodies:

| Discharge Point            | Roof drain to   | outtail # | 1       |                   |             |                |  |  |  |  |  |  |
|----------------------------|---|-----------|---------|-------------------|-------------|----------------|--|--|--|--|--|--|
| There was no qua           | There was no qualifying storm event this quarter so no values are entered below (see explanation) |           |         |                   |             |                |  |  |  |  |  |  |
| Quarterly Monitoring       |   | AVERAGE   | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |  |
| pН                         | Consistent Attainment   | 7.33      |         | Standard<br>Units | Grap        | 1              |  |  |  |  |  |  |
| Solids, Total<br>Suspended | Consistent Attainment   | ND        |         | mg/L              | 1.          | 1              |  |  |  |  |  |  |

Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater Project Number: NA

Sample Matrix:

WATER

Service Request: K0500497

Date Collected: 05/19/05

Date Received: 05/24/05

pН

Units: pH UNITS

Basis: NA

Analysis Method 150.1 Test Notes:

Sample Name #1,#2,#3 Roof Drain

Lab Code K0500497-001 MRL MDL Factor

Dilution

Analyzed

Result

Notes

Result

05/24/05

Date

7.33

00004

Report By: AYaple

-1-

## INORGANIC ANALYSIS DATA SHEET

Client:

Longview Fibre Company

Sample Name: #1,#2,#3 Roof Drain

Service Request: K0500497

Project No.: NA

Date Collected: 05/19/05

Project Name: Seattle Stormwater

Date Received: 05/24/05

Units: µG/L

Basis: NA

Matrix:

WATER

Lab Code: K0500497-001

| Analyte | Analysis<br>Method | MRL  | MDL | Dil. | Date<br>Extracted | Date<br>Analyzed | Result | С | Q |
|---------|--------------------|------|-----|------|-------------------|------------------|--------|---|---|
| Copper  | 6010B              | 10.0 | 5.0 | 1    | 6/2/05            | 6/8/05           | 5.7    | В |   |
| Lead    | 200.9              | 2.0  | 0.3 | 1    | 6/3/05            | 6/8/05           | 0.3    | В |   |
| Zinc    | 6010B              | 10.0 | 6.0 | 1    | 6/2/05            | 6/8/05           | 76.5   |   |   |

% Solids: 0.0

Comments:

Analytical Report

Client:

Longview Fibre Company

Service Request: K0500497

Project:

Seattle Stormwater

Date Collected: 5/19/2005

Sample Matrix:

Water

Date Received: 5/24/2005

Oil and Grease

Sample Name:

#1,#2,#3 Roof Drain

Units: mg/L (ppm)

Lab Code:

K0500497-001

Basis: NA

Test Notes:

Analyte

Prep Análysis Dilution Date Date Result Method Method MRL MDL Factor Extracted Analyzed Result Notes

ì

Oil and Grease, Total (HEM)

METHOD 1664

5.0 0.64

5/31/2005 5/31/2005

0.70

J

K0500497PHC.JW1 - 1 6/1/2005



June 27, 2005

Service Request No: K0500497

Mike Anderson Longview Fibre Company 5901 East Marginal Way South Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on May 24, 2005. For your reference, these analyses have been assigned our service request number K0500497.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of 12

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the POL but greater

than or equal to the MDL.

#### **Inorganic Data Qualifiers**

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N . The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA

Service Request: K0500497 Date Collected: 05/19/05

Sample Matrix: WATER

Date Received: 05/24/05

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Analysis Method 160.2 Test Notes:

Basis: NA

| Sample Name         | Lab Code     | MRL | MDL | Dilution<br>Factor | Date<br>Analyzed Result | Result<br>Notes |
|---------------------|--------------|-----|-----|--------------------|-------------------------|-----------------|
| #1,#2,#3 Roof Drain | K0500497-001 | 5   | 5   | 1                  | 05/24/05 ND             |                 |
| Method Biank        | K0500497-MB  | 5   | 5   | 1                  | 05/24/05 ND             |                 |

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Lab Sample ID.

K0500497-001

K0500497-MP

Longview Fibre Company

Service Request: K0500497

Project No.:

Project Name: Seattle Stormwater

#1,#2,#3 Roof Drain

Sample No.

Method Blank

| Comm | ents:  |        |           |
|------|--|--------|-----------|
|      | If yes-were raw data generated before application of background corrections? | Yes/No | <u>no</u> |
| Were | ICP background corrections applied?  | Yes/No | YES       |
| MEIC | ICP interelement corrections applied?  | Yes/No | YES       |

-1-

# INORGANIC ANALYSIS DATA SHEET

Client:

Longview Fibre Company

Service Request: K0500497

Project No.: NA

Date Collected:

Project Name: Seattle Stormwater

Date Received:

Matrix:

WATER

Units: µG/L

Basis: NA

Sample Name: Method Blank

Lab Code: K0500497-MB

| Analyte | Analysis<br>Method | MRL  | MDT. | Dil. | Date<br>Extracted | Date<br>Analyzed | Result | С | Q. |
|---------|--------------------|------|------|------|-------------------|------------------|--------|---|----|
| Copper  | 6010B              | 10.0 | 5.0  | 1    | 6/2/05            | 6/8/05           | 5.0    | ט |    |
| Lead    | 200.9              | 2.0  | 0.3  | 1    | 6/3/05            | 6/8/05           | 0.3    | Ū |    |
| Zinç    | 6010B              | 10.0 | 6.0  | 1    | 6/2/05            | 6/8/05           | 6.0    | U |    |

% Solids: 0.0

Comments:

Analytical Report

Client:

Longview Fibre Company

Service Request: K0500497

Project:

Seattle Stormwater

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K050531-WB

Basis: NA

Test Notes:

Analyte

Prep Analysis **Dilution** Date Date Result Method Method MRL MDL Factor Extracted Analyzed Result Notes **METHOD** 5/31/2005 5/31/2005 1664 0.64

Oil and Grease, Total (HEM)

5.0

ND

| Approved By: |   | Date: | Dio 205 |
|--------------|---|-------|---------|
| \$22/020597p | 1 |       |         |

K0500497PHC.JW1 - MB 6/1/2005

| Columbia Analytical Services No.  40 Employer - Owned Company  1317 South 13th Ave. •  | <b>CHAIN OF C</b> Kelso, WA 98626 • (360) 577-7222 • (800) 6   |   | PAGE K05            | 00497                                  |
|--|--|---|---------------------|--|
| PROJECT NAME SOLTHE STORMULICITEN  PROJECT NUMBER  PROJECT NUMBER  COMPANY/ADDRESS  COMPANY/ADDRESS  COMPANY/ADDRESS  COMPANY/ADDRESS  COMPANY/ADDRESS  COMPANY/ADDRESS  COMPANY/ADDRESS  COMPANY/ADDRESS  COMPANY/ADDRESS  ENAL ADDRESS  PANY/ADDRESS  PANY/ADDRESS  COMPANY/ADDRESS  | 2000 100 100 100 100 100 100 100 100 100   | SGT C | Congyi              | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| #3 roof drain 5/19/05 6.45on7  |  |   |                     |  |
| III. Data Validation Report (includes all raw data)IV. CLP Deliverable Report V. EDD   | Total Metals: AI As Dissolved Metals: AI As PINDICATE STATE HY SPECIAL INSTRUCTION ABOVE AB hr.  1-15 working days) Results  Report Date | Sb Ba Be B Ca Cd Co Cr (G) Sb Ba Be B Ca Cd Co Cr Cu DROCARBON PROCEDURE: AK ONS/COMMENTS:  | Fe Pb Mg Mn Mo NI K |  |
| RELINQUISHED BY:    Signature   Date/Time   Signature   Date/Time   Signature   Printed Name   P | RECEIVED BY:  Date/Time Date/Time Firm   | Signature Date Printed Name Fin   | e/Time Signatu      |  |

## Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

PC Ed W.

| Pro | ject/Client <u>hong/</u>   | iew tibe            | e 60.                                 | W                                     | ork Order K05    | <i>Uj</i> 49-  | <u> </u>       |                  |               |  |  |  |
|-----|--|---------------------|---------------------------------------|---------------------------------------|------------------|----------------|----------------|------------------|---------------|--|--|--|
|     | oler received on 5   |                     |                                       | ned on <u>5/24</u> ,                  | 105 by           | DP             |                | _                |               |  |  |  |
| 1.  | Were custody seals on  | outside of cool     | lers?                                 |                                       |                  |                |                | Ŵ                | N             |  |  |  |
|     | If yes, how many a   | nd where? $2$       | +101                                  | t                                     |                  |                |                | 2-               |               |  |  |  |
| 2.  | Were custody seals inta  |                     |                                       |                                       |                  |                |                | $\mathcal{Q}$    | N             |  |  |  |
| 3.  | Were signature and date  |                     |                                       |                                       |                  |                |                | $\varphi$        | Ņ             |  |  |  |
| 4.  | Is the shipper's airbill   | available and f     | iled? If no,                          | record airbill number:_               | 12 903-466       | -01-1000-      | 164.1          | Y                | $(\tilde{N})$ |  |  |  |
| 5.  | COC#   |                     |                                       |                                       |                  |                |                |                  |               |  |  |  |
|     | Temperature of coole   | er(s) upon rec      | eipt: (°C)                            | 10 10 p                               | 4.5              |                |                |                  |               |  |  |  |
|     | Temperature Blank:   | (°C)                |                                       |                                       | 4.3              | <del></del>    |                |                  | ~             |  |  |  |
|     | Were samples hand deli   | vered on the s      | ame day as o                          | collection?                           |                  |                |                | Y                |               |  |  |  |
| 6.  | Were custody papers pr   | operly filled o     | ut (ink, sign                         | ed, etc.)?                            | ( )              | ,              | ,              | CY               | N             |  |  |  |
| 7.  | Type of packing materi   | al present <u>+</u> | am s                                  | neets, bub                            | ole wras         | , paper to     | owels          | •                |               |  |  |  |
| 8.  | Did all bottles arrive i   | n good condit       | ion (unbrol                           | ken)?                                 | `                |                |                | ( <u>)</u>       | N             |  |  |  |
| 9.  | Were all bottle labels co  | omplete (i.e an     | alysis, prese                         | ervation, etc.)?                      | SHORT            | r uni n        | TIM            | (Z)              | N             |  |  |  |
| 10. | Did all bottle labels an   | nd tags agree w     | ith custody                           | papers?                               |                  | IIVL           |                |                  | N             |  |  |  |
| 11. | Were the correct type  | es of bottles us    | sed for the t                         | ests indicated?                       |                  |                |                | $\bigcirc$       | N             |  |  |  |
| 12. | 2. Were all of the preserved bottles received at the lab with the appropriate pH?  |                     |                                       |                                       |                  |                |                |                  |               |  |  |  |
| 13. | 3. Were VOA vials checked for absence of air bubbles, and if present, noted below? |                     |                                       |                                       |                  |                |                |                  |               |  |  |  |
| 14. | Did the bottles originat   | te from CAS/K       | or a branch                           | laboratory?                           |                  |                |                | (V)              | N             |  |  |  |
| 15. | Are CWA Microbiolo   | gy samples re       | ceived with                           | >1/2 the 24hr. hold t                 | ime remaining fr | om collection? |                | · <del>Y</del> — | <del>N</del>  |  |  |  |
| 16. | Was C12/Res negative   | ?                   |                                       |                                       |                  |                |                | Y                | N             |  |  |  |
| Exp | lain any discrepancies   | ::                  |                                       |                                       |                  |                |                |                  |               |  |  |  |
|     |  |                     |                                       |                                       |                  |                |                |                  |               |  |  |  |
|     |  |                     | · · · · · · · · · · · · · · · · · · · |                                       |                  |                |                |                  |               |  |  |  |
|     |  |                     | ·                                     |                                       |                  |                |                |                  |               |  |  |  |
|     |  |                     |                                       |                                       | <del></del>      |                |                |                  |               |  |  |  |
| RES | SOLUTION:  |                     |                                       |                                       | ·                | · ·            |                |                  |               |  |  |  |
| Com |  |                     | برو لامرينومو                         | t of town-o-ture.                     |                  |                |                |                  |               |  |  |  |
| San | iples that required pres   | servation of r      | eceivea ou                            | t of temperature:                     |                  |                |                |                  |               |  |  |  |
|     | ··········   |                     |                                       |                                       |                  | Rec'd out of   | l .            | ]                |               |  |  |  |
|     | Sample ID  | Reagent             | Volume                                | Lot Number                            | Bottle Type      | Temperature    | Initials       |                  |               |  |  |  |
|     |  |                     |                                       | · · · · · · · · · · · · · · · · · · · |                  |                | <del> </del> - |                  |               |  |  |  |
| ļ   |  |                     |                                       |                                       |                  |                |                | <u> </u>         |               |  |  |  |
|     |  |                     |                                       |                                       |                  |                |                | <b>.</b>         |               |  |  |  |
| -   |  |                     |                                       |                                       | <del></del>      |                |                | }                | •             |  |  |  |
| -   |  |                     | <u> </u>                              |                                       |                  | <u> </u>       | <del> </del>   | 1                |               |  |  |  |
| -   |  |                     |                                       |                                       | <del></del>      |                | ļ              | {                |               |  |  |  |
|     |  |                     |                                       | · · · · · · · · · · · · · · · · · · · | _                |                |                | 1                |               |  |  |  |
| L   |  |                     | <u> </u>                              |                                       |                  | I              | 000            | 12               |               |  |  |  |

5-tormwater





## **Confirmation of Sample Receipt**

| To:    | Mike Anderson            | From:  | Ed Wallace                |
|--------|--------------------------|--------|---------------------------|
| Emall: | mjanderson@longfibre.com | Email: | EWallace@kelso.caslab.com |
| Fax:   | 206-767-2442             | Fax:   | 360-636-1068              |
| Phone: | 206-762-7170             | Phone: | 360-577-7222 x3291        |

Samples for analysis have been received by Columbia Analytical Services on 05/24/2005 and assigned our Service Request number K0500497. Please verify the following information and notify me of any corrections as soon as possible.

The estimated completion date for this work is: 06/14/2005

Client:

Longview Fibre Company

Project:

EDD Required:

No

Report To:

Mike Anderson

Longview Fibre Company 5901 East Marginal Way South

Seattle, WA 98124

PO Number: 1299

Tier:

Billing Address:

Accounts Payable

Longview Fibre Company End of Fibre Way

P.O. Box 3000

Longview, WA 98632-0300

Thank you for your business!

|              |                     | Λ - Test is A | Authorized  | н н          | - Test On       | Hold                | ₽-                | Test is Authorized for Prep Only |
|--------------|---------------------|---------------|-------------|--------------|-----------------|---------------------|-------------------|----------------------------------|
|              |                     |               | 150.1<br>PH | 160.2<br>TSS | 1664<br>O_G_HEM | 200.9<br>PB_TRACE_T | 6010B<br>METALS_T |                                  |
| K0500497-001 | #1,#2,#3 Roof Drain | 05/19/03 0645 | A           | Α            | А               | A                   | ۸                 |                                  |

C - Test has been Cancelled

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter):

2005 year



Apr/May/Jun

Jul/Aug/Sep

Oct/Nov/Dec

Facility/Site Information

Mailing Information

LONGVIEW FIBRE SEATTLE Location: 5901 E MARGINAL WAY S

County: KING

Primary SIC Code: 2653

LONGVIEW FIBRE COMPANY PO BOX 639 LONGVIEW WA 98632-7411

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point   | Roof drain +          | o outfall | #       |                   |             |                |  |  |  |  |  |  |
|---|-----------------------|-----------|---------|-------------------|-------------|----------------|--|--|--|--|--|--|
| There was no qualifying storm event this quarter so no values are entered below (see explanation) |                       |           |         |                   |             |                |  |  |  |  |  |  |
| Quarterly Monitoring  |                       | AVERAGE   | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |  |
| Turbidity   | Consistent Attainment | 1, 4      |         | NTU               |             | 1              |  |  |  |  |  |  |
| рН  | Consistent Attainment | 6.93      |         | Standard<br>Units |             | 1              |  |  |  |  |  |  |
| Zinc (total)  | Consistent Attainment | 52        |         | μg/L              |             | 1              |  |  |  |  |  |  |
| Oil & Grease  | Consistent Attainment | ND        |         | mg/L              | Grab        |                |  |  |  |  |  |  |

Monitoring associated with impaired waterbodies:

| Discharge Point            | Boof drain to   | outfall # | (       |                   |             |                |  |  |  |  |  |  |
|----------------------------|---|-----------|---------|-------------------|-------------|----------------|--|--|--|--|--|--|
| There was no qua           | There was no qualifying storm event this quarter so no values are entered below (see explanation) |           |         |                   |             |                |  |  |  |  |  |  |
| Quarterly Monitoring       | <del></del>   | AVERAGE   | MAXIMUM | UNITS             | Sample Type | Events Sampled |  |  |  |  |  |  |
| pН                         | Consistent Attainment   | 6.93      |         | Standard<br>Units |             | 1              |  |  |  |  |  |  |
| Solids, Total<br>Suspended | Consistent Attainment   | NO        |         | mg/L              |             | ĺ              |  |  |  |  |  |  |

| GEORGE MICHELL   | 4             | 5-    | 05   |  |  |  |
|--|---------------|-------|------|--|--|--|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)    | DATE: MO      | DAY   | YEAR |  |  |  |
|  |               |       |      |  |  |  |
| Leve Mall  | 206-76        | 2-717 | 7/   |  |  |  |
| SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE NUM | IBEA  |      |  |  |  |
| MENTS / EXPLANATIONS .                                       |               |       |      |  |  |  |

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA

Sample Matrix:

WATER

Service Request: K2500491 Date Collected: 01/18/05

Date Received: 01/20/05

Turbidity

Analysis Method 180.1

Test Notes:

Units: NTU

Basis: NA

| Sample Name  | Lab Code     | MRL | Dilution<br>Factor | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|--------------|-----|--------------------|------------------|--------|-----------------|
| Roof Drain   | K2500491-001 | 0.2 | 1                  | 01/20/05         | 1.4    |                 |
| Method Blank | K2500491-MB  | 0.2 | 1                  | 01/20/05         | ND     |                 |

#### Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA

Sample Matrix: WATER

Service Request: K2500491

Date Collected: 01/18/05

Date Received: 01/20/05

pН

Analysis Method 150.1

Test Notes:

Units: pH UNITS

Basis: NA

Sample Name

Lab Code

MRL

Dilution **Factor** 

Date Analyzed

Result Result Notes

Roof Drain

K2500491-001

1

01/20/05

6.93

## Analytical Report

Client:

Longview Fibre Company

Project Name :

Seattle Stormwater

Project No.: Matrix:

NA Water Service Request: K2500491

Date Collected: 01/18/05 Date Received: 01/20/05

Date Extracted: 02/01/05

Total Metals

Units: ug/L (ppb)

Analyte:

Zinc

EPA Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

02/03/05

Sample Name

Lab Code

Roof Drain

K2500491-001

52

Method Blank

K2500491-MB

ND

Comments:

Analytical Report

Client:

Longview Fibre Company

Service Request: K2502200

Project:

Seattle Stormwater

Date Collected: 3/26/2005

Sample Matrix:

Water

Date Received: 3/29/2005

Oil and Grease

Sample Name:

#1 Roof Drain

Units: mg/L (ppm)

Lab Code:

K2502200-001

Basis: NA

Test Notes:

Analyte

Result Dilution Date Date Prep Analysis Notes Method Method MRL Factor Extracted Analyzed Result 1 1664

Oil and Grease, Total (HEM)

METHOD

5.0

3/29/2005 3/31/2005

ND

\_\_ Date: \_ Approved By: 1\$22/020597p

02200PHC cq1 - 1 3/31/2005

## Analytical Report

Client:

Longview Fibre Company

Seattle Stormwater

Project Name: Project Number: NA

Sample Matrix: WATER Service Request: K2500491 Date Collected: 01/18/05

Date Received: 01/20/05

Solids, Total Suspended (TSS)

Units: mg/L (ppm)

Basis: NA

Test Notes:

Analysis Method 160.2

| Sample Name  | Lab Code     | MRL | Dilution<br>Factor | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|--------------|-----|--------------------|------------------|--------|-----------------|
| Roof Drain   | K2500491-001 | 5   | 1                  | 01/25/05         | ND     |                 |
| Method Blank | K2500491-MB  | .5  | 1                  | 01/25/05         | ND     |                 |



March 31, 2005

Service Request No: K2502200

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on March 29, 2005. For your reference, these analyses have been assigned our service request number K2502200.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

cc:

Page 1 of \_\_\_

Hank Rakoz, Longview Fibre, Longview, WA

**NELAP Accredited** 

**B** B B

ACIL Seal of Excellence Award

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

## Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product

- 0000**3** 

Analytical Report

Client:

Longview Fibre Company

Project:

Seattle Stormwater

Service Request: K2502200 Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K050329-WB

Basis: NA

Test Notes:

Analyte

Prep Method Analysis Method MRL

1664

Dilution Factor Extracted Analyzed Result

Date

Result Notes

Oil and Grease, Total (HEM)

METHOD

5.0

3/29/2005 3/31/2005

Date

ND

\_\_\_\_ Date: <u>833105</u> Approved By: 1S22/020597p

02200PHC.cq1 - MB 3/31/2005

| Columbia<br>Analytical   |                                      |  |              | Cł           | ΙAΙ           | IN   | OF              | · C          | ับร               | STO             | 'DC    | Y     |              |                  |              |  |                   |  |                                 | SR               | #:   | V             | 25     | 02200       |
|--|--------------------------------------|--|--------------|--------------|---------------|--|-----------------|--------------|-------------------|-----------------|--------|-------|--------------|------------------|--------------|--|-------------------|--|---------------------------------|------------------|--|---------------|--------|-------------|
| Services INC.  | 317 South 13                         | th Ave. • Ke                                     | Iso, WA 9    | 8626         | (360)         | 577-72   | 222 •           | (800)        | 695-72            | 22x07           | • FAX  | (360) | 636-1        | 068              | ı            | PAGE   |                   |  | OF                              |                  |  | CO            |        |             |
| PROJECT NAME STOCHTE STOCE PROJECT NUMBER  PROJECT MANAGER  PROJECT MANAGER  PROJECT MANAGER  COMPANYADORESS   rmidat<br>nallur<br>18139<br>1415ve. | evi<br>y Sout<br>(BM<br>(B)767                   | h<br>-244    | A June       | OF CONTAINERS |  | Organics by GCA | 7            | See below) BTEX[] | Olosopint (Flo) |        |       | 7            | 15147            | /            | 10 mg/                                       | PH. Cond Hex-Chin | 75. 80. 75. 75. 75. 75. 75. 75. 75. 75. 75. 75 | TOX CATCAGO NO TRIVE TO TOX CO. | 100 1 100 1 10C. | 12905 12055                                      |               |        | REMARKS     |
| SAMPLE I.D. DATE   | TIME                                 | LAB I.D.   | MATRIX       | / <          |               | <del>/                                    </del> | / <u>3 6</u>    | 7            | 3/~!\<br>         | 7—              | 14 4   | / 6   | 105          | 7 4              | / <u>*</u> \ | 2/ O   | <u> </u>          | / <u>*</u> _                                   | 15                              | <del>/</del>     | $\leftarrow$                                     |               |        | HEWARKS     |
| ra 1 roof day 3/14/  | - Ziin                               |  |              | 1            |               |  |                 |              |                   |                 |        |       | -            |                  |              |  |                   |  |                                 |                  |  |               |        |             |
|  | ·                                    | <u> </u>   | <del> </del> |              | -             | $\vdash$   | -               | <del> </del> | -                 |                 | _      |       | -            | <u> </u>         | -            | ├  |                   | <del> </del>                                   | <u> </u>                        | <del> </del>     | <del>   </del>                                   |               |        |             |
| <del></del>  | <del>-  </del>                       |  |              |              | <u></u>       | <del> </del>                                     |                 |              | -                 |                 |        |       | <del> </del> | <del>  -</del> - |              | -  |                   | <del> </del>                                   |                                 | _                | <del>                                     </del> |               |        | <u> </u>    |
|  | <del> </del>                         |  | <del> </del> | <del> </del> |               | -  | -               |              | <del> </del>      |                 |        |       |              | ·                | -            | ├  |                   |  | -                               | -                | +-1  |               |        |             |
|  |                                      | <del>                                     </del> | -            |              |               |  | -               |              | $\vdash$          |                 |        | -     | <del> </del> | <u> </u>         | <del> </del> |  |                   | <u> </u>                                       | +-                              |                  | 1  |               |        |             |
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| REPORT REQUIREMENTS  |                                      | DICE INFOR                                       |              | ı<br>v       | 27,00         | e which  | metals          | are to       | be an             | alyzed:         | L      |       | L            | L                | L            | <u>.                                    </u> | L                 | <u> </u>                                       | <u> </u>                        | <u> </u>         | <u>1</u>   |               |        | <u></u>     |
| I. Routine Report: Method  | ı                                    |  |              |              | το            | tal Met  | als: Al         | As           | Sb B              | a Be            | B Ca   | Cd    | Со           | Cr Cı            | u Fe         | Pb 1   | √lg M             | In Mo  | Ni c                            | K Ag             | Na   | Se S          | r TI S | Sn V Zn Hg  |
| Blank, Surrogate, as required  |                                      |  |              |              | Disso         | lved Me  | tals: A         | i As         | Sb E              | 3a Be           | ВС     | a Cd  | Со           | Cr C             | u Fe         | Рь   | Mg N              | ⁄ln Mo   | o Ni                            | K A              | j Na   | Se S          | Br Tl  | Sn V Zn Hg  |
| II. Report Dup., MS, MSD as  | TURNAS                               | OUND REC   | NUDEN.       | ENTO         | 1             | ICATE  |                 |              |                   |                 |        |       | DURE         | Ξ: Αŀ            | < C/         | A Wi   | NO                | RTHV   | VEST                            | ОТН              | ER:  |               | _(CIR  | CLE ONE)    |
| required   | X 24                                 |  | 48 hr.       | ENIS         | SPE           | CIAL   | NSTR            | IUCTI        | ONS/C             | COMM            | IENTS  | :     |              |                  |              |  |                   |  |                                 |                  |  |               |        |             |
| III. Data Validation Report  | 5 C                                  |  |              |              | ļ             |  |                 |              |                   |                 |        |       |              |                  |              |  |                   |  | •                               |                  |  |               |        |             |
| (Includes all raw data)  | l                                    | indard (10-15                                    | _            | days)        | s)            |  |                 |              |                   |                 |        |       |              |                  |              |  |                   |  |                                 |                  |  |               |        |             |
| IV. CLP Deliverable Report Provide FAX Results V. EDD  |                                      |  |              |              |               |  |                 |              |                   |                 |        |       |              |                  |              |  |                   |  |                                 |                  |  |               |        |             |
|  | Requested Report Date                |  |              |              |               |  |                 |              |                   |                 |        |       |              |                  |              |  |                   |  |                                 |                  |  |               |        |             |
| AMINUI RELINQUISHED BY:  | nc -                                 | 1  | 3/1          | HECH         | EIVED         | BY:  | C 10            | 00           |                   |                 |        | RE    | LINQ         | JISHE            | DEY          | :  |                   |  |                                 |                  | RE   | CEIVI         | ED BY  | :           |
| Signature Date/Tim   | ) <del>0</del> /1                    | Signa  |              | pl)          | _ ;           | ate/Ţi   | DE              |              | -                 | Sig             | nature |       |              | Da               | ate/Ti       | пе   |                   | Signature Date/Time                            |                                 |                  | Time   |               |        |             |
| Printed Name Firm  | The tarterson Longview Hore PTVAIN   |  |              |              |               | irm  | 13              |              | -                 | Pri             | nted N | ame   |              | - Fi             | rm           |  |                   | .  | Print                           | ed Na            | me   | <del></del> - | Firm   |             |

|          |                                       | 9 920         |              | a Analytical Services       |                | PC                          | TH V     | ·V ·         |             |
|----------|---------------------------------------|---------------|--------------|-----------------------------|----------------|-----------------------------|----------|--------------|-------------|
|          |                                       |               | Cooler B     | Receipt and Preservat       | ion Form       |                             |          |              |             |
|          | jecisjieni 🕶                          | V             | BRE          | Wo:                         | k Order K25    | o 22                        | 200      |              |             |
|          |                                       | 9/05          | _            | ened on $3/29/cx$           | by             | An                          |          |              |             |
| 1        | Were custody seals on out             | ride of acc   |              | 1 *                         | ć              | P                           |          | abla         | N           |
| l.       | If yes, how many and                  |               |              | 1F7B                        | ,              |                             |          | -            | 14          |
| 2.       | Were custody seals intact?            | ,             |              |                             |                |                             |          | 0            | N           |
| 3.       | Were signature and date p             | resent on th  | e custody s  | eals?                       |                |                             |          | Ö            | N           |
| 4.       | Is the shipper's airbill ava          | ailable and i | filed? If no | , record airbill number:/_  | 7903466        | 01/00023                    | 6/       | Y            | N           |
| 5.       | COC#                                  |               |              |                             |                | <del></del>                 |          |              |             |
|          | Temperature of cooler(s               | s) upon rec   | eipt: (°C)   | 116                         | <del></del>    |                             |          |              |             |
|          | Temperature Blank:                    | (°C) .        |              | NIP                         |                |                             |          |              |             |
|          | Were samples hand deliver             | red on the s  | ame day as   | collection?                 |                |                             |          | Y-           | N           |
| 6.       | Were custody papers prop              | erly filled o | ut (ink, sig | ned, etc.)?                 |                |                             |          | Œ            | N           |
| 7.       | Type of packing material              | present       | P            | Burno, Coresos              | BARP           |                             |          |              |             |
| 8.       | Did all bottles arrive in g           | good condit   |              | Ø                           |                |                             |          | (Y)          | N           |
| 9.       | Were all bottle labels com            | plete (i.e ar | alysis, pres | servation, etc.)?           |                |                             |          | / <b>k</b> ) | N           |
| 10.      | Did all bottle labels and             | tags agree v  | vith custody | papers?                     |                |                             |          | Œ            | N           |
| 11.      | Were the correct types of             | of bottles u  | sed for the  | tests indicated?            |                |                             |          | (X)          | N           |
| 12.      | Were all of the preserved             | bottles rece  | ived at the  | lab with the appropriate pl | <del>1</del> ? |                             |          | <u>y</u>     | Ŋ           |
| 13.      | Were VOA vials checked                | for absence   | e of air bub | bles, and if present, noted | oelow?         |                             |          | Y            | Ň           |
| 14,      | Did the bottles originate f           | rom CAS/K     | or a branc   | h laboratory?               |                |                             |          | (Y)          | N           |
| 15.      | Are CWA Microbiology                  | samples re    | eceived wit  | h >1/2 the 24hr. hold tim   | e remaining fi | rom collection?             |          | ¥            | N_          |
| 16.      | Was C12/Res negative?                 |               |              |                             |                |                             |          | Y            | N           |
| Ex       | plain any discrepancies:              |               |              |                             |                |                             |          |              |             |
| _        |                                       |               |              |                             |                |                             |          |              |             |
|          | <del> </del>                          |               |              |                             |                |                             |          |              |             |
| -        |                                       |               |              |                             |                | <del></del>                 |          |              |             |
|          |                                       |               |              |                             |                |                             |          |              |             |
| RE       | SOLUTION:                             | <del></del>   |              |                             |                |                             |          |              | <del></del> |
| Sat      | nples that required preser            | vation or r   | received or  | ut of temperature:          |                |                             |          |              |             |
|          | Sample ID                             | Reagent       | Volume       | Lot Number                  | Bottle Type    | Rec'd out of<br>Temperature | Initials |              |             |
| -        | ·                                     | ļ             |              |                             |                |                             |          |              |             |
|          | · · · · · · · · · · · · · · · · · · · |               |              |                             |                |                             |          |              |             |
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| -        |                                       | t             |              |                             |                |                             |          | 1            |             |



February 4, 2005

Service Request No: K2500491

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on January 20, 2005. For your reference, these analyses have been assigned our service request number K2500491.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

**NELAP Accredited** 

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of / O

Cc: Hank Rakoz, Longview Fibre

ACIL Seal of Excellence Award

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard-Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- j The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct carbon range, but the clution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project No.:

NA

Service Request: K2500491

Sample Name:

Roof Drain Method Blank Lab Code:

K2500491-001 K2500491-MB

Comments:

## Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

| PC_ | EN |
|-----|----|
|     |    |

| Pro       | oject/Client                  | cu fik                                | 7° (0.       | Wc                          | ork Order K25                         | 0 49           | /           |                                 |             |
|-----------|-------------------------------|---------------------------------------|--------------|-----------------------------|---------------------------------------|----------------|-------------|---------------------------------|-------------|
| Со        | pject/Client (ing 11)         | 120/05                                | _ and op:    | ened on $1/20/cs$           | by                                    | TSCau          | <u>k</u>    |                                 |             |
| 1.        | Custody seals on out          | side of coo                           | lers?        |                             |                                       | •              |             | Y                               | Ń,          |
|           | yes, how many and             | •                                     |              |                             |                                       |                |             |                                 |             |
| 2.        | Word custody seals intact?    |                                       |              |                             |                                       |                |             | Y                               | N)          |
| 3.        | Signature and date of         | recent on th                          | e custody s  | seals?                      |                                       |                |             | Y                               | (Ñ)         |
| 4.        | "Is the shipper's airbill ava | ilable and                            | filed? If no | o, record airbill number:   | 12903466                              | cj iocas4f     |             | Y                               | Ŕ           |
| 5.        | COC#                          |                                       |              |                             |                                       |                |             |                                 |             |
|           | fiemperature of cooler(s      | s) upon rec                           | eipt: (°C)   | 3.5                         |                                       |                |             |                                 |             |
|           | Temperature Blank:            | (°C)                                  |              | 2.3                         |                                       |                |             |                                 |             |
|           | samples hand deliver          | red on the s                          | ame day as   | collection?                 |                                       |                |             | ¥                               | N           |
| б.        | Were custody papers prop      | erly filled c                         | ut (ink, sig | ned, etc.)?                 |                                       |                |             | Ŵ                               | 1 Qi        |
| 7.        | Type of packing material      | oresent                               |              | cel packs                   |                                       |                | •           |                                 |             |
| 8.        | Did all bottles arrive in g   |                                       |              | U                           |                                       |                |             | Ÿ,                              | N           |
| 9.        | Were all bottle labels com    | plete (i.e ar                         | alysis, pres | servation, etc.)?           |                                       |                |             | (V                              | N           |
| 10.       | Did all bottle labels and     | ags agree v                           | vith custody | y papers?                   |                                       |                |             | (Y)                             | N 2         |
| 11.       | Were the correct types of     | f bottles u                           | sed for the  | tests indicated?            |                                       |                |             | $\widehat{\mathbf{q}^{\prime}}$ | c! (N)      |
| 12.       | Were all of the preserved     | bottles rece                          | ived at the  | lab with the appropriate p  | H?                                    |                |             | ري                              | N           |
| 13.       | Were VOA vials checked        | for absence                           | of air bub   | bles, and if present, noted | below?                                |                |             | Y                               | N           |
| 14.       | Did the bottles originate f   | rom CAS/k                             | or a branc   | th laboratory?              |                                       |                |             | زي                              | N           |
| 15.       | Are CWA Microbiology          | samples r                             | eceived wit  | th >1/2 the 24hr. hold tin  | ne remaining fr                       | om collection? |             | Y                               | N           |
| 16.       | Was C12/Res negative?         |                                       |              |                             |                                       |                |             | Y                               | N           |
| Ex        | plain any discrepancies:_     | 1. No                                 | lests r      | nurled in COC. ?            | - Dodnot                              | receive 160    | 24 120HB    | 0,                              |             |
|           |                               | <del></del>                           |              |                             | <del></del>                           |                |             |                                 | <del></del> |
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|           |                               | •                                     |              |                             |                                       |                |             |                                 |             |
| _         |                               |                                       |              |                             |                                       |                |             |                                 |             |
| RE        | SOLUTION:                     |                                       |              |                             |                                       |                |             |                                 |             |
|           |                               |                                       | . ,          |                             |                                       |                | _           |                                 |             |
| <u>Sa</u> | mples that required preser    | vation of f                           | eceived of   | ut of temperature:          |                                       |                |             |                                 |             |
|           |                               |                                       |              |                             |                                       | Rec'd out of   |             |                                 |             |
| -         | Sample ID                     | Reagent                               | Volume       | Lot Number                  | Bottle Type                           | Temperature    | Initials    |                                 |             |
| -         |                               |                                       |              |                             |                                       |                |             |                                 |             |
| <u> </u>  |                               |                                       |              |                             |                                       |                |             |                                 |             |
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| _         |                               | <del>+</del>                          |              | <del></del>                 | <del>+</del>                          |                | <del></del> |                                 |             |

# ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO:

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

FROM:

Ed Wallace, Project Chemist Columbia Analytical Services, Inc.

This is to inform you that the samples received for testing have been assigned CAS Service Request number K2500491. Please verify information and notify me of any corrections.

A copy of our work order is attached. If you have any questions regarding the status of this work, please call me at (360) 577-7222.

Thank you for your business.

Number of pages  $-\frac{2}{2}$  - (including cover sheet).

Columbia Analytical Services, Inc. 1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626 (360) 577-7222 (360) 636-1068 - FAX

<sup>\*</sup> During the next few months, you may notice formst changes in some of the documents you receive from CAS. However, these documents should contain the same information you are accustomed to receiving.

#### Columbia Analytical Services -- Kelso INTERNAL LOGIN SUMMARY REPORT (1101) 25-JAN-03 09:48

| ervice Reg. No.<br>lient No.<br>Lient Name | 12585<br>LongyTev:E[bits::Company::[5:55]]   |        | FIDJECT RUNG               | Seattle                                     | Stormwater                                    |  |                      | Bottles: 1 - 500 ml Red<br>2 - 500 ml White |
|--|--|--------|----------------------------|---|---|--|----------------------|---|
| ill To:                                    | Longview Fibre Company<br>Attn: Accounts Payable<br>5901 E. Maryinal Hay S.<br>Seattle, WA 98124 |        | Report To:                 | longview<br>Mike And<br>5901 E.<br>Seattle, | Fibre Com<br>lerson<br>Macginal W<br>WA 98124 | pany : : : : : : : : : : : : : : : : : : : |                      |   |
| .O. No.<br>ogged in By<br>SR Num           | 1456 OB (Longview)<br>FADAIR   |        | Site ID<br>Project Chemist | Ed Walla                                    | ice - 1                                       |  | (784) #// Q164()<br> |   |
| XOC Received<br>Camples Submitte           | d 20-JAN-05  |        |                            |   |   |  |                      | Storage: HERK G4                            |
| CAS Semp No. Cl                            | ient Sample No.  | Matrix | Collected D                | ueDate PH                                   | TSS TUR                                       | B ZH/ICP                                   | _018E21              |   |
| (2500491-001 Ro                            | of Drain   | WATER  | 16:45 18-JAN-05 03         | -FEB-05 1                                   | in in the second                              | 22   4 2 <b>1</b> 1 2 ( 4                  | I                    |   |
| Comments:                                  |  |        |                            | •   | MAN   |  |                      |   |
| 2500491                                    | PK; = rec'd past hold time.  |        |                            |   |   |  |                      |   |
| 125855                                     | cc: Hank Rakoz.  |        |                            | •   | 9167<br>3168                                  |  |                      |   |
|  |  |        |                            |   | 97 (X)<br>93 (X)                              |  |                      |   |
|  |  |        |                            |   |   |  |                      | **  |
|  |  |        |                            |   |   |  |                      |   |
|  |  |        |                            |   |   | 700 M                                      |                      |   |
|  |  |        |                            |   |   | 00000000000000000000000000000000000000     |                      |   |
|  | •  |        |                            |   |   |  |                      |   |
| •  |  |        |                            |   |   |  |                      |   |
|  |  |        |                            |   | ()***/<br>();{\$;}                            |  | :                    |   |
|  |  |        |                            |   | 7/7/S   |  |                      |   |
|  |  |        |                            |   | 1829<br>1829<br>1820<br>1820                  |  |                      |   |
|  |  |        |                            |   | . (0 CP )<br>(0A / ) 2<br>(2 0 9 6)           |  |                      |   |
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|  |  |        |                            |   |   | 5/2/2/200<br>1/2/2/200                     |                      |   |
|  |  |        |                            |   | <b>j</b> #/ii                                 |  | :                    |   |
|  |  |        |                            |   |   |  |                      |   |
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|  |  |        |                            |   |   |  |                      | •   |
|  |  |        |                            |   | (1) M   |  | ÷.                   |   |
| Familia Family                             | Po Mazardoune NONE ALL SECONE  |        |                            |   | iarii.  |  |                      | Reviewed By:                                |
| samples Found I                            | o Be Hazardous: NONE ALL *SOME   |        | Pag                        | e 1 of 1                                    |   | MAN  | ė.                   |   |

| Columbia<br>Analytical                               |  |             |  |                | CI           | AF              | IN           | OF   | C                  | US            | STC  | )D                                       | Y            |                    |                  |               |   |              |             |                 |  | #:         | . ~                | SC    | 00491        |
|--|--|-------------|--|----------------|--------------|-----------------|--------------|--|--------------------|---------------|--|--|--------------|--------------------|------------------|---------------|---|--------------|-------------|-----------------|--|------------|--------------------|-------|--------------|
| Services An Employee - Owned Company                 | 13   | 17 South 13 | ith Ave. • Ke                                    | lso, WA 9      | 8626         | • (360)         | 577-72       | 222 • (  | (800) 6            | 695-722       | 22x07  | • FAX                                    | (360)        | 636-10             | 068              | F             | PAGE  | ≣            |             | OF              |  |            | CO                 | C #   |              |
| PROJECT NAME SEATTLE                                 | Stor   | millat      | er   |                |              |                 | 7            | 100  | 7                  | 10            | 7  | 7  | 7            | 7                  | 70               | 7             | $\mathcal{T}$   | 7            | 7           | 7               | 7  | 1_         | 7                  | / /   | 7 7 7        |
|  | <del>.,</del>                                    | ····        |  |                |              | /               |              |  | , l                | BIEX          | "  |  | 12/          | / /                | 81514            | ′,            | / /   | / /          | / /         | (s` /           | (<br>(3)   | 208        | ′ /                | ' /   | / /          |
| PROJECT MANAGERY ALV                                 | Jerser   | <u>M</u>    |  |                |              | _/ .            | 。/慧          | 1 /3   | 0/                 |               |  |  | છું /        | _/                 | 6                |               |   | /            |             | North TKN TO    | วี /   | 75/        |                    | /     | / / 🥱        |
| Louge Itu) F   | -1) ye (   | 10. T       | <del></del>                                      | <del>-,,</del> |              | CONTAINED       | 7/建          | 1/5  | ₹/                 | S (See Delow) | 3/3  | /ફું                                     | · /          | Chorophy A Charles | PAHS TOTAL BISIN |               | t below Dissolved   | Tex.Che      |             | હેં/ફે          | \$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \          | g/.        |                    |       | 65000        |
| CITY/STATE/ZIP                                       |  |             | iny So   | uth            |              | / ₹             |              | 13 68<br>13 68<br>13 68                          | '/ &               |               | JE,  | -/-                                      | / \$         |                    | 5/2              |               | ં/ફ્રું   | خُ /         | / £         | No. 17 (18)     | ع /ج   | 17         | 7                  | / ,   | / / 🕏        |
| 2326+ (2 W)  | 4 96   | 1134        | <u> 1</u>  |                | /            | / § /           |              |  | 80                 |               |  | ED/                                      | / हाँ        |                    | 100              | 12            | رغ ا<br>ا   | / 🐔          | 88          | ્રિકુ <u>કે</u> | (€)  | ام ا       | / /                | ′. /  | / =          |
| Millinderson   | 1  | TEAVA.      | · · · · · ·                                      |                | _/           | $\Rightarrow u$ |              |  | 80                 | g 3/8         | 80   | 麵  |              | £ 2 /              | [3 E             | 8370 C        | 18 E  | _ /          | 95/9        | י עסיר          | 171  | 2/         | - /                |       | /            |
| 306)162-47   | $\mathcal{O}_{}$                                 | FAX:        | 2)767-   | <u> 244</u>    | 27 g         | 5/              | 1            |  | Hydrocart Confines | Gran Diesel   | SI S         | 3/                                       |              | [8/§               |                  | 8 / K         | 20 list be | ()<br>()     | <b>B</b> [3 |                 | ଛ /  | اري        | /                  | /     | /            |
| MANIAN   |  |             |  |                | ] 🕺          |                 | 1 6          |  | 7/§                | S 1           | ₹/ <sub>₹</sub> ,                                | \$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |              |                    | ો <del>ક</del> ્ | Metals        | *   \$  |              |             | ۲/ څ<br>ارځ     | "/.  | ร์/        |                    | /     | /            |
| SAMPLE I.D.  | DATE   | TIME        | LAB I.D.   | MATRIX         | / ≥          | 13/20           | 10           | />&  | 120                |               | <u> </u>   | Q 4                                      | 148          | 10%                | ?/ Q`            | /≅७           | <u> </u>  | 7            | />          | / <u>~</u>      | //   | <u>/</u> , | <del>/      </del> |       | REMARKS      |
|  | <u> </u>   |             | <u> </u>   | i              | <u></u>      | 原注              |              |  | <u> </u>           |               |  |  |              |                    |                  | $\mathcal{D}$ | <u> </u>  | X            |             | <u> </u>        | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \            |            |                    |       | L            |
| # 1 Got drain  | ilieb  | - 4.4x      | 1  |                | l i          |                 |              |  |                    |               |  |  |              |                    |                  |               |   |              |             |                 |  |            |                    |       |              |
|  | 1 4  |             | <del>                                     </del> |                |              | 题               |              |  |                    |               |  |  |              |                    |                  | _             | -   |              |             | _               |  | <b></b>    |                    |       |              |
| # 2 reat drawn                                       | 1.   | - 1111      | -  | <u></u>        | <del> </del> | 73.7            | -            | <del>                                     </del> | <del> </del>       | }             | ├─   | <del> </del>                             | <del> </del> | ├                  | 1                |               | ╁   | <del>}</del> |             | ├─              | <del> </del>                                     |            |                    |       |              |
| # 2 root drain                                       | 1/10/0   | - 4:45      | <del> </del>                                     | <u> </u>       | Н-           | 42 A            | <b>-</b>     | <u> </u>   | <b> </b> -         |               | <del> </del>                                     | ļ  |              |                    | <b> </b>         |               | <b>├</b>  | 1            |             | ├—              | -  |            |                    |       | <del></del>  |
|  | 1  |             |  |                | <u> </u>     | 清澈              |              |  |                    |               |  |  |              |                    |                  |               | <u> </u>  |              |             | L_              |  |            |                    |       | <u> </u>     |
| # 3 roof drawn                                       | 1/18/05  | 4:45        | 1  | 1              | li           |                 | 1            |  |                    |               | 1  |  | }            | 1                  | ١.               |               | j   | 1            |             | 1               | ł  |            |                    |       | į            |
|  | 1-1-   |             |  |                |              | 變字              |              |  |                    |               |  |  |              |                    |                  |               |   |              |             |                 |  |            |                    |       |              |
|  | <del>                                     </del> |             |  |                |              |                 |              |  | _                  |               | <del>                                     </del> | _  | -            |                    |                  |               | <del>                                     </del>  |              | 1-          |                 | <del>                                     </del> |            | $\vdash$           |       |              |
|  |  |             | <del> </del>                                     |                | <del> </del> | 100             |              | -  | ├—                 | -             | <del> </del> -                                   | <u> </u>                                 | -            | ├-                 | -                |               |   | ├            | -           |                 | -  |            |                    |       |              |
| <u> </u>   |  |             |  |                |              | 是是是             |              | <u> </u>   | <u> </u>           |               | L  | <b> </b>                                 | <u></u>      |                    |                  | <u> </u>      | \   | <u> </u>     | <u> </u>    | <u> </u>        |  | L          |                    |       | <del> </del> |
|  | <u> </u>   |             |  |                | <u></u>      |                 | <u> </u>     |  | <u> </u>           |               | <u> </u>   | <u> </u>                                 |              | <u>L_</u>          | <u> </u>         | <u> </u>      | <u> </u>  | <u> </u>     |             | <u> </u>        | <u> </u>   |            |                    |       |              |
| REPORT REQUIREM                                      | IENTS  |             | DICE INFOR                                       |                | N            | Circle          | e which      | metals   | are to             | be ana        | iyzed:   |  |              |                    |                  |               | •   |              |             |                 |  |            |                    |       |              |
| I. Routine Report:                                   |  |             |  |                |              | То              | tai Met      | als: Al  | As                 | Sb B          | а Ве   | ВС                                       | Cd           | Co                 | or (py           | Fe            | (Pb) 1  | Mg M         | In Mo       | Ni              | K Ag   | Na         | Se S               | r TI  | Sn V (Zn) Hg |
| Blank, Surrogate                                     |  | Biii 10;    |  |                |              |                 |              |  |                    |               |  |  |              |                    | _                |               | $\mathbf{C}$  |              |             |                 |  |            |                    |       | Sn V Zn Hg   |
| required   |  |             |  |                |              | 1               | DICATE       |  |                    |               |  |  |              |                    |                  |               |   | _            |             |                 |  |            |                    | _     | CLE ONE)     |
| II. Report Dup., MS                                  | , MSD as   | TURNAF      | OUND REC   | UIREM          | ENTS         |                 | CIAL         |  |                    |               |  |  |              | 00110              |                  |               | · - · · ·   |              |             |                 | <u> </u>   |            |                    | - 10  | <u> </u>     |
| required   |  | 24          | hr.  | 48 hr.         |              | -               |              |  |                    |               |  |  |              |                    |                  |               |   |              |             |                 |  |            |                    |       |              |
| III. Data Validation Report5 Day                     |  | 1           |  |                |              |                 |              |  |                    |               |  |  |              |                    |                  |               |   |              |             |                 |  |            |                    |       |              |
| (includes all raw data)Slandard (10-15 working days) |  |             |  |                |              |                 |              |  |                    |               |  |  |              |                    |                  |               |   |              |             |                 |  |            |                    |       |              |
| IV. CLP Deliverable Report Provide FAX Results       |  | 1           |  |                |              |                 |              |  |                    |               |  |  |              |                    |                  |               |   |              |             |                 |  |            |                    |       |              |
| V. EDD   |  |             | 1  |                |              |                 |              |  |                    |               |  |  |              |                    |                  |               |   |              |             |                 |  |            |                    |       |              |
|  |  | l Be        | equested Rep                                     | ort Date       |              | 1               | -            |  |                    |               |  |  |              |                    |                  |               |   |              | <del></del> |                 |  |            |                    |       |              |
| 1111/4 RELINQUIS                                     | HED BY:  | 1.          |  | 7              | REC          | ÉIVED           | ву:          | 1/   | ./                 | _             |  | ~  | RE           | LINQU              | JISHE            | D BY          | :   |              |             |                 |  | RE         | CEIVI              | ED BY | :            |
| Signature  | Date/Time  | 105 11      | Sigh   | au             |              | 41/2            | n<br>Date/Ti | <u>(j)</u>                                       | 216                | 2 (           | UQ   | nature                                   |              |                    | _ <del></del>    | ite/Tir       | ne -  |              |             | Signa           | alure  |            |                    | Date  | Time         |
| 1 -39336.6% 11 () *v                                 | Daily Lillie                                     | · 1         | . 1 > 3100kg                                     | ima            | ~ / <u>~</u> | 7 }             | 14101 FH     |  | سكنا ا             | 7.            | City   | iaiule                                   | ,            |                    | Ua               |               |   |              | •           | Jigin           |  |            |                    | 24.0  |              |

Firm

Printed Name

RCOC #1 06/03

Firm

Printed Name

REMARKS:

| CAS Kelso             | 1317 S. 13th Avenuc,   | P.O. Box 479,               | Kelso, WA 98626                   |
|-----------------------|--|-----------------------------|-----------------------------------|
|                       | Columbia Analytical ServiceS <sup>inc.</sup> e-Owned Company | Date: 3/2<br>Number of page | 31/05<br>s including cover sheet: |
| Mike                  | 2 Anderson<br>Wew Fibre                                      | From:<br>Jen for            | - ED Wallace                      |
| Phone: Fax phone: CC: | 206-767-2442   | Phone: Fax phone:           | (360) 577-7222<br>(360) 636-1068  |

Results for K250 2200.

#### IMPORTANT NOTE:

For your review 

Reply ASAP

Please comment

The documents accompanying this transmission may contain information which is legally privileged and/or confidential. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of any of the information contained in this transmission is strictly **PROHIBITED**. If you have received this transmission in error, please immediately notify us by telephone and mail the original transmission to us. Thank you for your cooperation and assistance.

#### Analytical Report

Client: Project: Longview Fibre Company

Service Request: K2502200

Sample Matrix:

Scattle Stormwater Water Date Collected: 3/26/2005
Date Received: 3/29/2005

Oil and Grease

Sample Name:

- #1 Roof Drain

Units: mg/L (ppm)

Lab Code:

K2502200-001

Basis: NA

Test Notes:

Dilution Date Date Result Analysis Prep Notes Factor Extracted Analyzed Result Analyte Method Method MRL ND 3/29/2005 3/31/2005 Oil and Crease, Total (HEM) 5.0 1 METHOD 1664

02200PHC.cq1 - 1 3/31/2005

Page No.:

| 9/17/2004  | 352,407                                 | 6,287  |
|------------|---|--------|
| 9/24/2004  |   |        |
| 10/1/2004  | 367,850                                 | 9,980  |
| 10/9/2004  | leaking float valve heat system 376,730 | 8,880  |
| 10/15/2004 | clean up AIB 379,430                    | 2,700  |
| 10/22/2004 |   |        |
| 10/30/2004 |   |        |
| 11/5/2004  |   |        |
| 11/12/2004 | 402,890                                 |        |
| 11/19/2004 | 405,520                                 | 2,630  |
| 11/26/2004 | holiday week 409,330                    | 3,810  |
| 12/3/2004  | 415,710                                 | 6,380  |
| 12/10/2004 | 421,750                                 | 6,040  |
| 12/17/2004 |   |        |
| 12/27/2004 | holiday week 432,320                    | 4,310  |
| 12/30/2004 | 435,100                                 | 2,780  |
| 1/7/2005   | 446,070                                 | 10,970 |
| 1/14/2005  | 454,820                                 | 8,750  |
| 1/21/2005  | 458,750                                 | 3,930  |
| 1/28/2005  | 465,850                                 | 7,100  |
| 2/4/2005   | 470,790                                 | 4,940  |
| 2/11/2005  | 483,160                                 | 12,370 |
| 2/18/2005  | 485,540                                 | 2,380  |
| 2/25/2005  | 489,770                                 | 4,230  |
| 3/4/2005   | 504,120                                 | 14,350 |
| 3/11/2005  | 508,990                                 | 4,870  |
| 3/18/2005  | 516,140                                 | 7,150  |
| 3/25/2005  | 521,740                                 | 5,600  |
| 4/1/2005   | 524,490                                 | 2,750  |
|            |   |        |
|            |   |        |
|            |   |        |
|            |   |        |
|            |   |        |
|            |   |        |
|            |   |        |
|            |   |        |
|            |   |        |
|            |   | ,      |
|            |   |        |

| DATE OF READING | METER INSTALLED 9-16-03 READING IS | DISCHARGE TO SEWER IN GALLONS |
|-----------------|------------------------------------|-------------------------------|
|                 | TOTAL FROM THIS DATE IN GALS.      |                               |
|                 | TO THE THOM THE BITTE IN GIVE.     |                               |
| 9/26/2003       | . 460                              | 460                           |
| 10/2/2003       | <del></del>                        | <del> </del>                  |
| 10/10/2003      | <del></del>                        | 11,560                        |
|                 | Instructions on water save 26,280  | 11,830                        |
| 10/24/2003      | 34,140                             | 7,860                         |
| 10/24/2003      |                                    | 8,380                         |
| 11/7/2003       |                                    | 10,920                        |
| 11/14/2003      | 70,510                             | 17,070                        |
| 11/21/2003      |                                    | 11,370                        |
| 12/5/2003       | <del>.</del>                       |                               |
| 12/13/2003      |                                    | 10,560                        |
| 12/13/2003      | <del></del>                        | 12,220                        |
| L               | 125,920                            |                               |
| 1/2/2004        | 130,390                            | 4,470                         |
| 1/9/2004        | 140,860                            | 10,470                        |
| 1/16/2004       | 151,380                            | 10,520                        |
| 1/23/2004       | 161,070                            | 9,690                         |
| 1/30/2004       | 169,160                            | 8,090                         |
|                 | Water save key switch 175,500      | 6,340                         |
| 2/13/2004       | 177,980                            | 2,480                         |
| 2/20/2004       | 185,300                            | 7,320                         |
| 2/28/2004       | 188,050                            | 2,750                         |
| 3/8/2004        |                                    | 4,060                         |
| 3/12/2004       | 197,490                            | 5,380                         |
| 3/19/2004       | 202,940                            | 5,450                         |
| 3/26/2004       | 205,560                            | 2,620                         |
| 4/2/2004        | 209,210                            | 3,650                         |
| 4/9/2004        | 215,410                            | 6,200                         |
| 4/16/2004       | 217,620                            | · 2,210                       |
| 4/23/2004       | 221,110                            | 3,490                         |
| 4/30/2004       | 229,450                            | 8,340                         |
| 5/7/2004        | 232,950                            | 3,500                         |
| 5/14/2004       | 236,080                            | 3,130                         |
| 5/21/2004       | 242,860                            | 6,780                         |
| 5/28/2004       | 245,510                            | 2,650                         |
| 6/4/2004        | 250,620                            | 5,110                         |
| 6/11/2004       | Flexo's clean up 262,060           | 11,440                        |
| 6/18/2004       | 269,210                            | 7,150                         |
| 6/25/2004       | 274;420                            | 5,210                         |
| 7/2/2004        | 278,030                            | 3,610                         |
| 7/9/2004        | 284,750                            | 6,720                         |
|                 | Broken valve bucket washer 300,610 | 15,860                        |
| 7/23/2004       | 302,970                            | 2,360                         |
| 7/30/2004       | 307,490                            | 4,520                         |
| 8/6/2004        | 312,070                            | 4,580                         |
| 8/13/2004       | 317,920                            | 5,850                         |
| 8/20/2004       | 324,210                            | 6,290                         |
| 8/27/2004       | 333,670                            | 9,460                         |
| 9/3/2004        | 337,520                            | 3,850                         |
| 9/10/2004       | 346,120                            | 6,600                         |
| 3/10/2004)      | 340,120                            | 0,000                         |

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

| MONITORING PERIOD                                    | for (year/quarter): 200  | Jan/Fel                                   | b/Mar Apr/M                                 | lay/Jun Ji                           | ul/Aug/Sep  | Oct/Nov/Dec                        |  |  |
|--|--|---|---|--------------------------------------|---|------------------------------------|--|--|
| LONGVIEW FIBRE S                                     |  |   | LONGVIEW FI                                 | Mailing Inf                          |   |                                    |  |  |
| Location: 5901 E MAR<br>County: KING                 | GINAL WAY S  Primary SIC Code:   |   | PO BOX 639<br>LONGVIEW W.                   | A 98632-7411                         |   |                                    |  |  |
| suspended sampling b                                 | parge Monitoring Report<br>because of consistent attacked read the instructions  | tainment of bei                           | nchmark values                              |                                      |   |                                    |  |  |
| Discharge Point                                      | Out fall oi-   | Roof dra                                  | in  |                                      |   |                                    |  |  |
| There was no   | qualifying storm even  | t this quarter                            | so no values a                              | re entered b                         | elow (see exp   | olanation)                         |  |  |
| Quarterly Monitoring                                 |  | AVERAGE                                   | MAXIMUM                                     | UNITS                                | Sample Type   | Events Sampled                     |  |  |
| Turbidity  | Consistent Attainment  | 1.5                                       |   | NTU                                  | Grab  | 1                                  |  |  |
| pН   | Consistent Attainment  | 7.72                                      |   | Standard<br>Units                    | Grab  | 1                                  |  |  |
| Zinc (total)   | Consistent Attainment  | 42  |   | μg/L                                 | Grab  | 1                                  |  |  |
| Oil & Grease   | Consistent Attainment  | ND  |   | mg/L                                 | Grab  | 1                                  |  |  |
| INQUIRY OF THOSE INDIVIDUAL AND COMPLETE. I AM AWARE | LAW THAT I HAVE PERSONALLY E<br>LS IMMEDIATELY RESPONSIBLE NO<br>THAT THERE ARE SIGNIFICANT PE<br>001 AND 33 USC § 1319. (PENALTIES<br>E YEARS.) | OR OBTAINING THE IN<br>NALTIES FOR SUBMIT | NFORMATION, I BELIEV<br>ITING FALSE INFORMA | 'E THE SUBMITTED<br>TION INCLUDING T | INFORMATION IS TR<br>HE POSSIBILITY OF F<br>D OR MAXIMUM IMPR | UE, ACCURATE. THE AND RISONMENT OF |  |  |
| GEOPGE MITCH<br>NAMEZITLE PRINC                      | HELL FLANT   | MANAGER<br>OR PRINTED)                    |   | DATE: MO                             | 2 ST  | YEAR                               |  |  |
| Hora D   | Ched   | UTWO BITED A CRAT                         | 206-762-7170<br>T TELEPHONE NUMBER          |                                      |   |                                    |  |  |
| COMMENTS / EXPLANATIONS                              | NCIPAL EXECUTIVE OFFICER OR A  |   | <del></del>                                 | 1 ELEPHONE NO                        |   | <del></del>                        |  |  |
|  |  |   |   |                                      |   |                                    |  |  |

## Analytical Report

Client:

Longview Fibre Company

Project:

Seattle Stormwater

Sample Matrix: Water

Service Request: K2408734

Date Collected: 11/02/04 Date Received: 11/03/04

Date Extracted: NA

Date Analyzed: 11/03/04

Turbidity EPA Method 180.1 Units: NTU

| Sample Name  | Lab Code     | MRL | Result |
|--------------|--------------|-----|--------|
| Roof Drain   | K2408734-001 | 0.2 | 1.5    |
| Method Blank | K2408734-MB  | 0.2 | ND     |

11/17/04 Approved By:

1AMRL/102594

08734WET.MF1 - IAMRL 11/17/04

#### Analytical Report

Client:

Longview Fibre Company

Project:

Seattle Stormwater

Sample Matrix: Water

Service Request: K2408734

Date Collected: 11/02/04

Date Received: 11/03/04 Date Extracted: NA

Date Analyzed: 11/03/04

pН

EPA Method 150.1 Units: pH Units

Sample Name

Lab Code

Result

Roof Drain

K2408734-001

7.72

Approved By: 1A/102094

08734WET.MF1 - pH 11/17/04

## **Analytical Report**

Client : Project Name : Longview Fibre Company

Project Name Project No.: Seattle Stormwater

Matrix:

NA Water Service Request: K2408734

Date Collected: 11/02/04 Date Received: 11/03/04 Date Extracted: 11/18/04

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Zinc

EPA Method:

6010B 10

Method Reporting Limit: Date Analyzed:

11/30/04

Sample Name

Lab Code

Roof Drain Method Blank K2408734-001 K2408734-MB 42 ND

Comments:

Analytical Report

Client:

Project:

Longview Fibre Company

Seattle Stormwater

Service Request: K2408734

Sample Matrix:

Water

Date Collected: 11/2/2004

Date Received: 11/3/2004

Oil and Grease

Sample Name:

Date

Units: mg/L (ppm)

Result

Notes

Lab Code:

Analyte

Roof Drain K2408734-001

Basis: NA

Test Notes:

Oil and Grease, Total (HEM)

METHOD

Prep

1664 5.0

Analysis

Method Method MRL

11/11/2004 11/12/2004

Date

Factor Extracted Analyzed Result

Dilution

Approved By: IS22/020597p

08734PHC.eq1 - 111/15/2004



December 3, 2004

Service Request No: K2408734

Mike Anderson Longview Fibre Company End of Fibre Way P.O. Box 639 Longview, WA 98632

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on November 3, 2004. For your reference, these analyses have been assigned our service request number K2408734.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

cc:

Page 1 of

Hank Rakoz, Longview Fibre

NELAP Accredited

ACIL Seal of Excellence Award

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

## - Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project No.:

NA

Service Request: K2408734

Sample Name:

Roof Drain Method Blank Lab Code:

K2408734-001

K2408734-MB

Comments:

00006

LFC002556

Analytical Report

Client:

Longview Fibre Company

Service Request: K2408734

Project: Sample Matrix: Seattle Stormwater Water Date Collected: NA
Date Received: NA

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K041111-WB

Basis: NA

Test Notes:

Date Prep Analysis Dilution Date Result Analyte Factor Extracted Analyzed Result Notes Method MRL Method Oil and Grease, Total (HEM) 11/11/2004 11/12/2004 **METHOD** 5.0 1664

08734PHC cq1 - MB 11/15/2004

#### Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B. The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X Sec case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative
- \* The duplicate analysis not within control limits. See case narrative.
- The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- \* The result is an outlier. See ease narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic lingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct carbon range, but the clution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

| Columbia<br>Analytical               | С   | HAIN OF CUS  | STODY  |   | SR#:_  | 2408734<br>0¢#                                   |
|--------------------------------------|---|--|--|---|--|--|
| Services INC.                        | South 13th Ave. • Kelso, WA 98626                   | • (360) 577-7222 • (800) 695-72  | 22x07 • FAX (360) 636-1068   | PAGE  | _OFC   | oc #   |
| PROJECT NAME Scaffe Ston             | mwater  |  | 7 7 7 7 7 5  |   | 1111   | /// \$   |
| PROJECT NUMBER  PROJECT MANAGEM      |   |  | 85377  | / / / / /   |  | / / / 岩  |
| COMPANYADDRESS TE PENAPYSON          |   |  |  |   | いがた トロノート  | / / / / )  |
| Longview Fibre Co                    | <del></del>   | C C C C C C C C C C C C C C C C C C C  | [ ] O   B   B Z Z Z  | 8310 SIM CI FORD SIM CI  | 100 (100 (100 (100 (100 (100 (100 (100           | / / /  |
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| E-MAIL ADDRESS                       | fibre.com   |  |  | 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6   |  | / / /  |
| mjanderson & Long.                   | 206 767-2447  |  |  | 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  |  | ′ / /  |
| SAMPLE SENAL YE                      |   | Maria Para Para Para Para Para Para Para   | 01.8/4/-1.109epmit (FQ) [] 01.8 Gresson (FQ) [] 01.8 Gresson (FQ) [] 02.8 Gresson (FQ) [] 03.8 Gresson (FQ) [] 03. | Metals: 70al or. CVanice □ H<br>PH. Conc. □ H<br>NA. S.   |  | / /  |
| SANIPLE I.D. DATE                    | TIME LAB I.D. MATRIX                                |  | ि रिड्री १ के हिंदी हैं  |   | 8/2/ / /   | / REMARKS  |
|                                      |   |  |  |   |  |  |
| # 1 roof draw 1/2/04                 | 3:30m 1   |  |  |   |  |  |
| 13.001.000                           |   |  |  |   |  |  |
| #2 roof drain 1/2/04                 | 2120  | CARCANA CARCAN | <del>                                     </del>   | <del>  - </del>   | <del>                                     </del> | <del></del>                                      |
| -2 1807 ATMIN 12/04                  | 7.90, m   |  |  | <del>  -                                   </del>   | <del>   </del>                                   | <del></del>                                      |
| - 10 la 1V/ 12                       |   |  | <del> </del>   | <del> </del>  | <del> </del>                                     |  |
| #3 roof drain 1/2/04 3               | 13024   | 98.98  |  |   | + +  |  |
|                                      |   |  |  |   | <del> </del>                                     | <del>                                     </del> |
|                                      |   |  |  |   |  |  |
|                                      |   | 1.0  |  |   |  |  |
|                                      |   | File of the second seco |  |   |  |  |
| REPORT REQUIREMENTS                  | INVOICE INFORMATION                                 | Circle which metals are to be an   | alyzed:  |   |  |  |
| } P                                  | P.O. #  | Total Metals: Al As Sb E   | la Be B Ca Cd Co Cr Ci   | u Fe Pb Mg Mn M   | o Ni K Ag Na Se                                  | Sr TI Sn V Zn Hg                                 |
| Blank, Surrogate, as                 | BIII To:  | Dissolved Metals: Al As Sb E   | Ba Be B Ca Cd Co Cr C  | u Fe Pb Mg Mn M   | lo Ni K Ag Na Se                                 | Sr TI Sn V Zn Hg                                 |
| required                             |   |  | CARBON PROCEDURE: A  |   |  | (CIRCLE ONE)                                     |
| 1). Report Dup., MS, MSD as required | TURNAROUND REQUIREMENT                              | S SPECIAL INSTRUCTIONS/  | COMMENTS:  |   |  |  |
| III. Data Validation Report          | 24 hr 48 hr.  |  |  |   |  |  |
| (includes all raw data)              | 5 Day   |  |  |   |  |  |
| IV. CLP Deliverable Report           | Standard (10-15 working days<br>Provide FAX Results | '  |  | •   |  |  |
| V. EDD                               | TTOVIGETYXX TIESDIES                                |  |  |   |  |  |
| -                                    | Requested Report Date                               |  |  |   |  |  |
| AM ARELINQUISHED BY:                 |   | CEIVED BY:   | RELINQUISHE  | D BY:   | RECEI  | IVED BY:   |
| 11/2/04                              | 3:40m (Nat)   | 11/3/09/00   | Signature Da   | ate/fime  | Signature  | Date/Tirne                                       |
| Mike Huderen Longvie                 | en Signiff  | Law Mills  | - 3  | Im  | Printed Name                                     | Firm   |

| $\{[\ ]$ | DT UNIN TI                   | 1P            |               | ia Analytical Servic<br>Receipt and Preserv |                                       | PC             | te            | <u> </u>    |     |
|----------|------------------------------|---------------|---------------|---|---------------------------------------|----------------|---------------|-------------|-----|
|          |                              |               | _             | -   |                                       | $\nabla$       | 77i,          |             |     |
| Proj     | ect/Client                   |               | BRK           | v   | ork Order K240                        | 00_            | 124           |             |     |
| Coc      | ler received on//3/          | M             | and ope       | ened on 11/3/04                             | by                                    | As             |               |             |     |
| 1.       | Were custody seals on out    | side of coo   | lers?         |   |                                       | U              | UPS           | <b>(3</b> ) | N   |
| 1.       | If yes, how many and         |               | 1013:         | 7 B   |                                       |                | , -           |             |     |
| 2        | Were custody seals intact?   |               | <del></del>   |   |                                       |                |               | $\Diamond$  | N   |
| 3.       | Were signature and date pr   |               | ne custody s  | seals?                                      |                                       |                |               | <b>®</b>    | N   |
| 4.       | Is the shipper's airbill ava | ilable and    | filed? If no  | , record airbill number:                    | 129034660                             | 011000240      | 9 .           | Y           | N   |
| 5.       | COC#                         |               |               |   |                                       |                | ,<br>         |             |     |
|          | Temperature of cooler(s      | ) upon rec    | eipt: (°C)    | 2.2   |                                       |                |               |             |     |
|          | •                            | (°C)          | ,             | 1.4   |                                       |                |               |             |     |
|          | Were samples hand deliver    | ed on the s   | ame day as    | collection?                                 |                                       |                |               | Y           | _ N |
| 6.       | Were custody papers propo    | erly filled o | out (ink, sig | ned, etc.)?                                 |                                       |                |               | \$          | N   |
| 7.       | Type of packing material p   | oresent       | 6             | EL PACKS                                    |                                       |                |               |             |     |
| 8.       | Did all bottles arrive in g  | ood condit    | tion (unbro   | ken)?                                       |                                       |                |               | 15          | N   |
| 9.       | Were all bottle labels comp  | plete (i.e ar | alysis, pres  | servation, etc.)?                           |                                       |                |               | ŠØ          | N   |
| 10.      | Did all bottle labels and t  | ags agree v   | with custody  | y papers?                                   |                                       |                |               | Y           | N.  |
| 11.      | Were the correct types o     | f bottles u   | sed for the   | tests indicated?                            |                                       |                |               | (B)         | N   |
| 12.      | Were all of the preserved    | bottles rece  | eived at the  | lab with the appropriate                    | pH?                                   |                |               | <b>5</b>    | N   |
| 13.      | Were VOA vials checked       | for absence   | e of air bub  | bles, and if present, note                  | ed below?                             |                |               | ¥           | N   |
| 14.      | Did the bottles originate fr | rom CAS/K     | or a branc    | h laboratory?                               |                                       |                |               | Ø           | N   |
| 15.      | Are CWA Microbiology         | samples re    | eceived wit   | h > 1/2 the 24hr. hold t                    | ime remaining fr                      | om collection? |               | ¥           | N   |
| 16.      | Was C12/Res negative?        |               |               |   |                                       |                |               | <u>Y</u>    | N   |
| Ехр      | lain any discrepancies:_     |               |               |   | · · · · · · · · · · · · · · · · · · · |                |               |             |     |
|          |                              |               |               |   |                                       |                |               |             |     |
|          |                              |               |               |   | <del></del>                           |                |               | <del></del> |     |
|          |                              |               |               |   |                                       |                |               |             |     |
|          |                              |               | <del></del>   |   |                                       |                |               |             |     |
| RES      | OLUTION:                     |               |               |   |                                       | ·              |               |             |     |
| C        | -1                           |               |               |   |                                       |                |               | -           |     |
| Sam      | ples that required preser    | vation or i   | received of   | ut of temperature:                          |                                       |                |               |             |     |
|          |                              |               |               |   |                                       | Rec'd out of   |               | •           |     |
|          | Sample ID                    | Reagent       | Volume        | Lot Number                                  | Bottle Type                           | Temperature    | Initials      |             |     |
|          |                              |               |               |   | _                                     |                |               |             |     |
|          |                              |               |               |   |                                       |                |               |             |     |
|          |                              |               |               | <u> </u>                                    |                                       | · <del></del>  |               |             |     |
|          |                              |               |               |   |                                       |                | <del></del> - |             |     |
|          |                              |               |               |   |                                       | ·              |               |             |     |
|          |                              |               |               |   |                                       |                |               |             |     |
|          |                              |               |               |   |                                       |                | <del>-</del>  | 000         | . 1 |
| <u> </u> |                              | L.—           | <del></del>   | L   |                                       | <del></del>    | لــــــا      | 000         | L   |

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

| MONITORING PERIOD  | for (year/quarter): 2004   | Jan/Fel                                   | b/Mar Apr/N                                 | lay/Jun J                            | ıl/Aug/Sep                             | Oct/Nov/Dec                |
|--|--|---|---|--------------------------------------|--|----------------------------|
| Facilit  | v/Site Information   |   |   | Mailing Inf                          | ormation                               |                            |
| LONGVIEW FIBRE S<br>Location: 5901 E MAR<br>County: KING |  |   | LONGVIEW FII<br>PO BOX 639<br>LONGVIEW W    |                                      | ŃΥ                                     |                            |
| suspended sampling                                       | harge Monitoring Report<br>because of consistent at<br>use read the instructions   | tainment of bei                           | nchmark values                              |                                      |  |                            |
| Discharge Point  | out fall or-Ro   | of drain                                  |   |                                      |  |                            |
| There was no   | qualifying storm ever  | nt this quarter                           | so no values a                              | re entered b                         | elow (see ex                           | planation)                 |
| Quarterly Monitoring                                     | ,  | AVERAGE                                   | MAXIMUM                                     | UNITS                                | Sample Type                            | Events Sampled             |
| Turbidity  | Consistent Attainment  | 2.1                                       |   | NTU                                  | Grab                                   |                            |
| рН   | Consistent Attainment  | 7.61                                      |   | Standard<br>Units                    | Grab                                   | 1                          |
| Zinc (total)   | Consistent Attainment  | 108                                       |   | μg/L                                 | Grab                                   |                            |
| Oil & Grease   | Consistent Attainment  | ND  |   | mg/L                                 | Grab                                   | \                          |
| INQUIRY OF THOSE INDIVIDUA<br>AND COMPLETE. I AM AWARE   | LAW THAT I HAVE PERSONALLY E<br>LS IMMEDIATELY RESPONSIBLE F<br>THAT THERE ARE SIGNIFICANT PE<br>1001 AND 33 USC § 1319. (PENALTIES<br>E YEARS.) | OR OBTAINING THE IN<br>NALTIES FOR SUBMIT | NFORMATION, I BELIEV<br>ITING FALSE INFORMA | 'E THE SUBMITTED<br>TION INCLUDING T | INFORMATION IS TO<br>BE POSSIBILITY OF | RUE, ACCURATE.<br>FINE AND |
| NAME/TITLE PRINC   | IPAL EXECUTIVE OFFICER (TYPE)  | O (IR PRINTED)                            |   | DATE. MO                             | DAY                                    | YEAR                       |
| SIGNATURE OF PRI   | NCIPAL EXECUTIVE OFFICER OR A  | AUTHORIZED AGENT                          |   | TELEPHONE NU                         | MBER                                   |                            |
|  |  |   |   |                                      |  |                            |

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA Sample Matrix: WATER Service Request: K2405871

Date Collected: 08/06/04 Date Received: 08/09/04

Turbidity

Units: NTU

Analysis Method 180.1

Test Notes:

Basis: NA

| Sample Name  | Lab Code     | MRL | Dilution<br>Factor | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|--------------|-----|--------------------|------------------|--------|-----------------|
| Roof Drain   | K2405871-001 | 0.2 | 1                  | 08/10/04         | 2.1 -  | X               |
| Method Blank | K2405871-MB  | 0.2 | 1                  | 08/10/04         | ND     |                 |

### Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA

Sample Matrix: WATER Service Request: K2405871

Date Collected: 08/06/04

Date Received: 08/09/04

рΗ

Units: pH UNITS

Basis: NA

Analysis Method 150.1 Test Notes:

Sample Name

Lab Code

MRL

Dilution Factor

Date Analyzed

Result

Roof Drain

K2405871-001

1

08/10/04

7.61

Result Notes

### **Analytical Report**

Client: Project Name: Longview Fibre Company

Project No.:

Seattle Stormwater NA

Matrix:

Water

Service Request: K2405871

Date Collected: 08/06/04 Date Received: 08/09/04 Date Extracted: 08/20/04

Total Metals Units: ug/L (ppb)

Analyte:

EPA Method:

Zinc

6010B

Method Reporting Limit:

10

Date Analyzed:

08/25/04

Sample Name

Lab Code

Roof Drain

K2405871-001

108

Method Blank

K2405871-MB

ND

Comments:

Analytical Report

Client:

Longview Fibre Company

Service Request: K2405871

Project:

Seattle Stormwater

Date Collected: 8/6/2004

Sample Matrix:

Water

Date Received: 8/9/2004

Oil and Grease

Sample Name:

Roof Drain

Units: mg/L (ppm)

Lab Code:

K2405871-001

Basis: NA

Test Notes:

Analyte

Prep Method Method MRL Dilution

Date Date Factor Extracted Analyzed Result Result Notes

Oil and Grease, Total (HEM)

METHOD

Analysis

1664

5.0

1 8/17/2004 8/18/2004 ND

\_ Date: <u>4230</u>+ Approved By: IS22/020597p 05871PHC.cq1 - 1 8/23/2004

Page No.: 9



August 26, 2004

Service Request No: K2405871

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on August 9, 2004. For your reference, these analyses have been assigned our service request number K2405871.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Dallac

Ed Wallace

Project Chemist

EW/jeb

Page 1 of

**6** 

NELAP Accredited

ACIL Seal of Excellence Award

## Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative,
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected addol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the clusion pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the clution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product cluting in approximately the correct earbon range, but the clution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Client:

Longview Fibre Company

Project:

Seattle Stomwater

Service Request No.: Date Received: K2405871 8/09/04

Sample Matrix:

Miscellaneous

#### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services. Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

#### Sample Receipt

One water sample was received for analysis at Columbia Analytical Services on 8/09/04. The sample was received above the control limit for temperature of 6.0 °C at 20.8 °C. After consulting the client it was decided to proceed with testing. Otherwise the sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

### General Chemistry Parameters

#### Turbidity by EPA Method 180.1:

Samples Roof Drain was received past the recommended holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

#### **Total Metals**

No anomalies associated with the analysis of these samples were observed.

#### Oil and Grease by EPA Method 1664

No anomalies associated with the analysis of these samples were observed.

Approved by Sun W Date 8/30/04

# - Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name :

Seattle Stormwater

Project No.:

NA

Service Request: K2405871

Sample Name:

Roof Drain Method Blank Lab Code:

K2405871-001 K2405871-MB

Comments:

Approved By:

Def Co

Date

26/04

Analytical Report

Client:

Longview Fibre Company

Project:

Seattle Stormwater

Service Request: K2405871

Date Collected: NA Date Received: NA

Sample Matrix:

Water

Oil and Grease

Sample Name:

Method Blank

Units: mg/L (ppm)

Lab Code:

K040817-WB

Basis: NA

Test Notes:

Analyte

Prep Method

Method MRL

Analysis

1664

Dilution

1

Date

Result Notes

Oil and Grease, Total (HEM)

**METHOD** 

5.0

8/17/2004 8/18/2004

Factor Extracted Analyzed Result

Date

ND

Approved By: 1S22/020597p

05871PHC.cq1 - MB 8/23/2004

Page No.:

| Columbia<br>Analytical   | CHAIN OF CUSTODY   | SR#: KZ405871  |
|--|--|--|
| Services NC. An Employee - Owned Company 1317 South 13th Ave. • Kelso, WA 9  | 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068 PAGE   | OF COC #   |
| PROJECT NUMBER   | 81514 G G G G G G G G G G G G G G G G G G G  |  |
| PROJECT MANAGER WE AWESOM  |  |  |
| 5901 East Marainal Way   | NUMBER OF CONTAINERS Seminolatile Operation Solution Solu | 1.85   |
| CITYSTATEIZIP SEATTLE WA. 98134  |  |  |
| E-MAIL ADDRESS MIGNARYSON & LONGTONE, COM PHONE: OF THE PROPERTY OF THE PROPER | Mumber   Seminaria   Seminar   | /O~/6*®/ /7 / / / / / /  |
| SAMPLERS SIGNAUR / 1/206)767-244   | 17   18   18   18   18   18   18   18  | (\$\bar{Q}_{\alpha}\) \( \alpha \) \( \alpha |
| SAMPLETO DATE TIME LAB I.D. MATRIX   | 1  | 일을 (   |
|  |  |  |
| #1 roof day 8/6/04 1pm   |  |  |
|  | 8.7  |  |
| 2 roof drain 8/6/04 lpm  |  |  |
|  |  |  |
| #3 roof drain elploy Ipm   |  |  |
|  | <del>                                      </del>  |  |
|  |  | <del>                                     </del>   |
|  |  | <del>                                     </del>   |
| INVOICE INFORMATION  | N Tasas salas sala |  |
| P.O. #   | Citcle which metals are to be analyzed:  Total Metals: At As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg I  | An Mo Ni K An Na Se Sr Ti Sn V 74 Ha   |
| I. Routine Report: Method Blank, Surrogate, as   | Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg   | _  |
| required   | 'INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NO   |  |
| TURNAROUND REQUIREM  | SPECIAL INSTRUCTIONS/COMMENTS:   |  |
| 24 hr48 hr  | ·  |  |
| (includes all raw data) Standard (10-15 working  | days)  |  |
| IV. CLP Deliverable Report Provide FAX Results   |  |  |
| V. EDD Requested Report Date   | · .  |  |
| AAA   A RELINQUISHED BY:   | RECEIVED BY:, / RELINQUISHED BY:   | RECEIVED BY:   |
| Signature A A Dale/Time Jon Signature A  | Date/Time Signature Date/Time  | Signature Date/Time  |
| Printed Name Printed Name Printed Name Printed Name  | Printed Name Firm  | Printed Name Firm  |

|   | Manufacture of the second of t |               | a Analytical S<br>Receipt and Pr | eservatio        | n Form      |                        | PC<br>587      | <u>ED</u>     |             |
|---|--|---------------|----------------------------------|------------------|-------------|------------------------|----------------|---------------|-------------|
| Project/Client  | VAB  | re            |                                  |                  | Order K24   | 10                     | 7 0 1          | 1             |             |
| Cooler received on  | 9/04   | and ope       | ened on $8/q$                    | 107              | by_         | <u> 19</u>             |                |               |             |
| 1. Were custody seals on o                                      | utside of coo  | lers?         |                                  |                  | ٠.          | /                      |                | Y             | 25          |
| If yes, how many an   | d where?   |               |                                  | _                |             |                        |                |               |             |
| 2. Were custody seals intac                                     | t?   |               |                                  |                  |             |                        |                | ¥             | — ·N        |
| 3. Were signature and date                                      | present on th  | e custody s   | eals?                            |                  |             |                        |                | Y             | N           |
| <ul><li>4. Is the shipper's airbill a</li><li>5. COC#</li></ul> | vailable and   | filed? If no  |                                  | mber: <u>/ Z</u> | 903 46.60   | 31004S.                | <i>337</i>     | Y             | ₩)          |
| Temperature of cooler   | (s) upon rec   | eipt:         | 20.8                             |                  |             |                        |                |               |             |
| Temperature Blank:  |  |               | 21.3                             |                  | _           |                        |                |               |             |
| Were samples hand deliv   | ered on the s  | ame day as    | collection?                      |                  |             |                        |                | ¥             | N           |
| 6. Were custody papers pro                                      | perly filled o   | out (ink, sig | ned, etc.)?                      |                  |             |                        |                | <b>(D)</b>    | N           |
| 7. Type of packing materia                                      | present  | Buxo          | PIMI-SH,                         | Gen D            | 416         |                        | _              |               |             |
| 8. Did all bottles arrive in                                    |  | ,             | •                                | ,                |             |                        |                |               | N           |
| 9. Were all bottle labels con                                   | nplete (i.e ar   | alysis, pres  | servation, etc.)?                |                  |             |                        |                | Y             | (N)         |
| 10. Did all bottle labels and                                   | tags agree v   | vith custody  | / papers?                        |                  |             |                        |                | Y             | <b>₩</b>    |
| 11. Were the correct types                                      | of bottles u   | sed for the   | tests indicated?                 |                  |             |                        |                | X             | N           |
| 12. Were all of the preserve                                    | d bottles rece   | ived at the   | lab with the appro               | priate pH?       |             |                        |                | Ø             | N           |
| 13. Were VOA vials checke                                       | d for absence  | e of air bub  | bles, and if presen              | t, noted bel     | ow?         |                        |                | Y             | _N_         |
| 14. Did the bottles originate                                   | from CAS/K   | or a branc    | h laboratory?                    |                  |             |                        |                | $\mathscr{D}$ | N           |
| 15. Are CWA Microbiolog   | y samples re   | ceived wit    | h >1/2 the 24hr. 1               | hold time r      | emaining f  | rom collectio          | n?             | Y             | N           |
| 16. Was C12/Res negative?                                       |  |               |                                  |                  |             |                        |                | Y             | N·          |
| Explain any discrepancies:                                      | 165 x  | NT FD         | aw .                             | Cung             | 2011        | 47131-2                | en s           | 00m           | <del></del> |
|   |  |               |                                  |                  |             |                        |                |               |             |
|   |  |               |                                  |                  |             |                        |                |               |             |
| RESOLUTION: OK  | to te  | 4 6           | Ecun                             | 8/10             | 104         |                        |                |               |             |
| Samples that required prese                                     | ervation or r  | eceived or    | ut of temperature                | į:<br>2:         |             |                        |                |               |             |
| Sample ID   | Reagent  | Volume        | Lot Number                       | er B             | ottle Type  | Rec'd out<br>Temperatu |                |               |             |
| <u> </u>  | +  |               |                                  | <del></del>      | <del></del> | <del> </del>           |                | -             |             |
|   | <del> </del>   |               |                                  |                  |             | <del> </del>           | <del>-  </del> | 7             |             |
|   | 1  |               |                                  |                  |             |                        |                | 1             | •           |
|   |  |               |                                  |                  |             |                        |                |               |             |
|   |  |               |                                  |                  |             |                        |                |               |             |
|   | ļ  |               |                                  |                  | <br>        |                        |                | _             |             |
| 1   | 1  | 1             |                                  | 1                |             | 1                      | 1              | }             |             |

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

Jan/Feb/Mar

Jul/Aug/Sep

Oct/Nov/Dec

MONITORING PERIOD for (year/quarter): 2004
year

| Facilit  | ty/Site Information   |   |   | Mailing Inf                         | ormation                                  |                          |
|--|---|---|---|-------------------------------------|---|--------------------------|
| LONGVIEW FIBRE S<br>Location: 5901 E MAI<br>County: KING |   |   | LONGVIEW FI<br>PO BOX 639<br>LONGVIEW W.    |                                     | NY  |                          |
| suspended sampling                                       | harge Monitoring Report<br>because of consistent at<br>ase read the instructions  | tainment of bei                           | nchmark values                              |                                     |   |                          |
| Discharge Point  | Owlfall 01-1  | zoef dian                                 | ٦   |                                     |   |                          |
| There was no   | qualifying storm ever   | it this quarter                           | so no values a                              | re entered b                        | elow (see exp                             | olanation)               |
| Quarterly Monitoring                                     |   | AVERAGE                                   | MAXIMUM                                     | UNITS                               | Sample Type                               | Events Sampled           |
| Turbidity  | Consistent Attainment   |   |   | NTU                                 |   |                          |
| pН   | Consistent Attainment   |   |   | Standard<br>Units                   |   |                          |
| Zinc (total)   | Consistent Attainment   |   |   | µg/L                                |   |                          |
| Oil & Grease   | Consistent Attainment   |   |   | mg/L                                | Grab                                      |                          |
|  |   |   |   |                                     |   |                          |
| INQUIRY OF THOSE INDIVIDUA<br>AND COMPLETE. I AM AWARE   | LAW THAT I HAVE PERSONALLY E<br>LS IMMEDIATELY RESPONSIBLE FO<br>THAT THERE ARE SIGNIFICANT PE<br>1001 AND 33 USC § 1319. (PENALTIES<br>E YEARS.) | OR OBTAINING THE IN<br>NALTIES FOR SUBMIT | NFORMATION, I BELIEV<br>FTING FALSE INFORMA | E THE SUBMITTED<br>TION INCLUDING T | INFORMATION IS TRI<br>HE POSSIBILITY OF F | UE. ACCURATE.<br>INE AND |
|  |   |   |   |                                     |   |                          |
| NAME/TITLE PRINC   | CIPAL EXECUTIVE OFFICER (TYPEU  | OK PRINTED)                               |   | DATE: MO                            | DAY                                       | YEAR                     |
|  |   |   |   |                                     |   |                          |
| SIGNATURE OF PRI   | INCIPAL EXECUTIVE OFFICER OR A  | UTHORIZED AGENT                           |   | TELEPHONE NU                        | MBER                                      |                          |
| Due to about   | rmal dry wea<br>obtain a stori  | ther du                                   | ring Hais                                   | quarte                              | r we a                                    | eve                      |
| unable to a  | obtain a stori  | m water                                   | - sample.                                   |                                     |   |                          |
|  |   |   |   |                                     |   |                          |

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

### Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA

Sample Matrix: WATER Service Request: K2400673

Date Collected: 01/28/04

Date Received: 02/03/04

Turbidity

Units: NTU

Basis: NA

Analysis Method: 180.1 Test Notes:

| Sample Name                   | Lab Code                    | MRL        | Dilution<br>Factor | Date<br>Analyzed      | Result    | Result<br>Notes |
|-------------------------------|-----------------------------|------------|--------------------|-----------------------|-----------|-----------------|
| #1 roof drain<br>Method Blank | K2400673-001<br>K2400673-MB | 0.2<br>0.2 | 1                  | 02/03/04<br>-02/03/04 | 0,8<br>DN | X               |

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project Number: NA

Analysis Method: 150.1

Sample Matrix: WATER Service Request: K2400673

Date Collected: 01/28/04

Date Received: 02/03/04

рΗ

Units: pH UNITS

Basis: NA

Test Notes:

Sample Name

Lab Code

MRL

Dilution Factor

Date Analyzed

Result

Result

#1 roof drain

K2400673-001

1

02/03/04

7.28

Notes

Report By:MFirth

00006

LFC002577

## Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project No.: Matrix:

NA Water Service Request: K2400673

Date Collected: 01/28/04 Date Received: 02/03/04 Date Extracted: 02/06/04

Total Metals Units: ug/L (ppb)

Analyte:

Zinc

EPA Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

02/12/04

Lab Code

#3 roof drain

Sample Name

K2400673-003

83

Method Blank

K2400673-MB

ND

Comments:



An Employee - Owned Company

February 19, 2004

Service Request No: K2400673

Mike Anderson Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on February 3, 2004. For your reference, these analyses have been assigned our service request number K2400673.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Pallace

Ed Wallace

Project Chemist

EW/jeb

Page 1 of

cc:

Hank Rakoz, Longview Fibre Dave Mendenhall, Longview Fibre

NELAP Accredited

**ACIL Seal of Excellence Award** 

### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency.

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

.00002

#### Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B. The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively contirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic tingerprint of the sample resembles a petroleum product, but the clution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

  The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Client:

Longview Fibre Co.

Service Request No.:

K2400673

Project:

Seattle Stormwater

Date Received:

2/3/04

Sample Matrix:

Water

#### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

Three water samples were received for analysis at Columbia Analytical Services on 2/3/04. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

#### **General Chemistry Parameters**

#### Turbidity by EPA Method 180.1

Sample #1 roof drain was received past the recommended holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

#### Total Metals

No anomalies associated with the analysis of these samples were observed.

### Oil and Grease by EPA Method 1664

No anomalies associated with the analysis of these samples were observed.

Emw Date 2/20/64 Approved by

# - Cover Page INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name :

Seattle Stormwater

Project No.:

NA

Service Request: K2400673

Sample Name:

#3 roof drain Method Blank Lab Code:

K2400673-003 K2400673-MB

Comments:

Approved By:

Date:

### Analytical Report

Client:

Longview Fibre Company

Project:

Seattle Stormwater

Sample Matrix:

Water

Service Request: K2400673

Date Collected: 1/28/04 Date Received: 2/3/04 Date Extracted: 2/12/04

Date Analyzed: 2/13/04

Oil and Grease EPA Method 1664 Units: mg/L (ppm)

Oil & Grease, Total

Analyte:

(HEM)

Method Reporting Limit:

5.0

Sample Name

Lab Code

#2 roof drain Method Blank · K2400673-002 K040212-WB ND

ND

Page No.:

| Columbia Analyticat Services Inc. An Employee - Owned Company                       | 13                               | 17 South 13ti                    | h Ave. • Ke                 | elso. WA 9               |   | (360) 577-7            |             |              |       |      |                  |        | 636-10 | 168                                    | F           | 'AGE            |                 |  | OF.                         | SR.            | #: <u> </u>  | <u> </u> | 00(a         | ,73                | ç  |
|---|----------------------------------|----------------------------------|-----------------------------|--------------------------|---|------------------------|-------------|--------------|-------|------|------------------|--------|--------|--|-------------|-----------------|-----------------|--|-----------------------------|----------------|--------------|----------|--------------|--------------------|----|
| PROJECT NAME SCRIFTS PROJECT NUMBER PROJECT MANAGEM R. D. CONPANY/ADDRESS LONG VIEW | sterw<br>Alers<br>Fibre<br>25t.M | minter<br>co.<br>argina<br>r 181 | Lilau<br>34                 |                          |   | Seminary               | 1 20 7 20 D | S (2/01/2/8) | [ [2] | /    | 7/8              | /_/    | 7      | 10                                     |             | Cyanide Cyanide | No Ond, C.      | 13 4 50 18 18 18 18 18 18 18 18 18 18 18 18 18 | TOX SOCIOIO NO 2+NO TKN TOS | 2              | 1905 Dec     |          |              |                    |    |
| SAMPLEID.   | DATE<br>Y28/04                   | FIME 8:00                        | LAB I.D.                    | MATRIX                   | / <i>≥                                   </i> | /                      | 1/28        | \$/₹°        |       | 0    | \g. <sup>4</sup> | [\&\&] | \&\    | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 750         | )<br>3          | \{\frac{2}{5}\} | ]\$**S   | / <u>Q</u>                  | _              | $\leftarrow$ | _        | _            | / REMAR            | KS |
|   | ,                                | 87855                            | 2                           |                          | ,   | HAMA<br>FELDE<br>STORY |             |              |       |      |                  |        |        |  |             |                 |                 |  |                             |                |              |          |              |                    |    |
|   |                                  |                                  | 4)                          |                          |   |                        | -           | -            |       |      |                  |        |        |  |             |                 |                 |  |                             |                |              |          |              |                    |    |
| #3 roof drain   | 725 <sub>1</sub> 04              | 0114,3                           |                             |                          |   |                        |             |              |       |      |                  |        |        |  |             |                 |                 |  |                             |                |              |          |              |                    |    |
|   |                                  |                                  |                             | }                        |   |                        | -           |              |       |      |                  |        |        |  |             |                 |                 |  |                             |                |              |          |              |                    |    |
|   |                                  |                                  |                             |                          |   |                        | -           |              |       |      |                  |        |        |  |             |                 |                 |  |                             |                |              |          |              |                    | _  |
| REPORT REQUIREME I. Routine Report: M Blank, Surrogate, required                    | fethod :                         | P.O. #                           | ICE INFO                    |                          | <b>N</b>                                      | Dissolved M            | etals: Al   | As<br>As     | Sb B  | а Ве | В Са             | Cd     | Co     | Cr Cu                                  | J Fe        | Pb N            | /lg Mi          | n Mo   | Ni                          | K Ag           | Na Na        |          | Sr Ti        | Sn V Zn<br>Sn V Zn | i  |
| III. Report Dup., MS, required  | eport                            | TURNAR<br>24 f                   |                             | QUIREM<br>48 hr.         | ENTS  | *INDICAT               |             |              |       |      |                  |        | DUHE   | <u>. AN</u>                            | . <u>UA</u> | VVI             | NOP             | <u>i rivv</u>                                  | <u> </u>                    | Oiv            | <u> </u>     |          | _ (          | OLE ONE)           |    |
| (includes all raw d   |                                  | Prov                             | ndard (10-15<br>vide FAX Re | esults                   | days)   |                        | ,           |              |       |      |                  |        |        |  |             |                 |                 |  |                             |                |              |          |              |                    |    |
| RELINQUISH  | 1-28-                            | 04/8; u                          | quested Rep                 | Jue                      | PECE  | IVED BY                | 1 14        | 100          |       |      |                  |        | .inqu  | ISHE                                   |             |                 |                 |  |                             |                | RE           | CEIV     | ED BY        |                    |    |
| Synally Printed Name  | Date/Time                        | 1717 (                           | Sign                        | ature<br>JUT<br>led Name |   | Date/IT                | inte 2      |              | -     | Ū    | nature<br>ited N |        |        | Da<br>Fir                              | te/Tim<br>m | 10              |                 | - 1  | Signa                       | ature<br>ed Na | me           |          | Date<br>Firm | /Time              |    |

## Columbia Analytical Services Inc. Cooler Receipt and Preservation Form

| Pro      | ject/Client                  | ibre           |               | W                          | ork Order K24  | 0 Bloth      |             |                          |             |
|----------|------------------------------|----------------|---------------|----------------------------|----------------|--------------|-------------|--------------------------|-------------|
|          | oler received on 1/2/10      | ij             | and op        | ened on                    | by             | A-Juc        | [/          |                          |             |
| 1.       | Were custody seals on ou     | tside of coo   | lers?         |                            |                |              |             | Y                        | (N)         |
|          | If yes, how many and         | where?         |               |                            |                |              |             |                          | _           |
| 2.       | Were seals intact and sign   | nature & dat   | e correct?    |                            |                |              |             | Y                        | (N)         |
| 3.       | Is the shipper's airbill av  | ailable and t  | filed? If no  | , record airbill number: 1 | 1290546603     | 10042247     | •           | Y                        | N           |
| 4.       | COC#                         |                |               |                            |                |              |             |                          |             |
|          | Temperature of cooler(s)     | upon receip    | ot:           | 5.4                        |                | <del> </del> |             | •                        |             |
|          | Temperature Blank:           |                |               | 4.9                        |                |              |             |                          |             |
| 5.       | Were custody papers prop     | erly filled o  | out (ink, sig | ned, etc.)?                |                |              |             | $\bigcirc$               | N           |
| 6.       | Type of packing material     | present_5/     | 10VC4+        | Burap                      |                |              |             |                          |             |
| 7.       | Did all bottles arrive in go | ood conditio   | n (unbroke    | n)?                        |                |              | •           | $(\widehat{\mathbf{Y}})$ | N           |
| 8.       | Were all bottle labels com   | nplete (i.e ar | alysis, pres  | servation, etc.)?          |                |              |             | $\mathcal{O}'$           | N           |
| 9.       | Did all bottle labels and ta | ags agree wi   | th custody    | papers?                    |                |              |             | Y                        | (Ŋ)         |
| 10.      | Were the correct types of    | bottles used   | d for the tes | sts indicated?             |                |              |             | (Y)                      | N           |
| 11.      | Were all of the preserved    | bottles rece   | eived at the  | lab with the appropriate   | pH?            |              |             | (F)                      | N           |
| 12.      | Were VOA vials checked       | for absence    | e of air bub  | bles, and if present, note | d below?       |              |             | <u>-¥</u>                | _N_:        |
| 13.      | Did the bottles originate t  | from CAS/K     | Cor a branc   | th laboratory?             |                |              |             | (V)                      | N           |
| 14.      | Are CWA Microbiology         | samples rec    | eived with    | >1/2 the 24hr. hold time   | remaining from | collection?  |             | <del>-</del> Y           | <u>N</u> -  |
| 15.      | Was C12/Res negative?        |                |               |                            | _              | _            |             | <u></u>                  | - N         |
| Exp      | lain any discrepancies:      |                |               |                            | U. Sours       | #1 Rost      | drañ        | 1                        | <i>^</i>    |
| 1        | -12A RECOLLAR                | eled it        | ahell i       | Planed as #                | of drawn       | un 64        | Proces      | KeCd                     |             |
| 28       | invitation M                 | ) 125F>        | mar           | Ked on coc.                | Loaged Di      | v DOHNIS     | <u> </u>    | es cop                   |             |
|          |                              |                |               |                            | J1 1           |              | -           |                          | <del></del> |
|          |                              |                | <del></del>   |                            |                | <u> </u>     |             |                          |             |
| RES      | OLUTION:                     |                |               |                            |                |              |             |                          |             |
|          |                              |                |               |                            |                |              |             |                          |             |
| Sam      | ples that required preser    | rvation or r   | eceived oi    | ut of temperature:         |                |              |             |                          |             |
|          |                              | T              |               |                            | 1              | Rec'd out of |             |                          |             |
|          | Sample ID                    | Reagent        | Volume        | Lot Number                 | Bottle Type    | Temperature  | Initials    |                          |             |
|          |                              |                |               |                            |                |              |             |                          |             |
| _        |                              | <del> </del> - |               |                            |                |              |             |                          |             |
| <b>}</b> |                              |                |               |                            |                |              | <del></del> |                          |             |
|          |                              |                |               |                            | <del> </del>   |              |             |                          |             |
| -        |                              | <del> </del>   |               |                            | <del> </del>   |              |             |                          |             |
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|          |                              | , ,            |               |                            |                |              |             |                          |             |

## SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

| MONITORING PERIOD  | for (year/quarter): 200<br>year  | 3 Jan/Feb   | /Mar Apr/N   | lay/Jun Ji                           | ıl/Aug/Sep                               | Oct/Nov/Dec    |
|--|--|---|--|--------------------------------------|--|----------------|
| Facilit  | y/Site Information   |   |  | Ma <u>iling</u> Info                 | ormation                                 |                |
| LONGVIEW FIBRES<br>Location: 5901 E MAR<br>County: KING  | EATTLE   | :<br>1  | LONGVIEW FII<br>PO BOX 639<br>LONGVIEW W                           | BRE COMPAN                           |  |                |
| suspended sampling l   | narge Monitoring Report<br>because of consistent at<br>use read the instructions   | tainment of ber   | ichmark values   |                                      |  |                |
| Discharge Point  | ROOF DRAIN   | , <u>70</u> 0   | oticall b  | £/                                   |  |                |
| There was no   | qualifying storm ever  | nt this quarter   | so no values a   | re entered b                         | elow (see ex                             | olanation)     |
| Quarterly Monitoring   |  | AVERAGE   | MAXIMUM  | UNITS                                | Sample Type                              | Events Sampled |
| Turbidity  | Consistent Attainment  | 1.9   |  | NTU                                  | GRAB                                     | 1              |
| рН   | Consistent Attainment  | フ   |  | Standard<br>Units                    | CRAB                                     | 1              |
| Zinc (total)   | Consistent Attainment  | 54  |  | μg/L                                 | GRAB                                     | 1              |
| Oil & Grease   | Consistent Attainment  | NO  |  | mg/L                                 | Grab.                                    | 1              |
| INQUIRY OF THOSE INDIVIDUA<br>AND COMPLETE. IAM AWARE<br>IMPRISONMENT. SEE 18 USC 9:<br>BETWEEN SIX MONTHS AND FIV | LAW THAT I HAVE PERSONALLY I<br>LS IMMEDIATELY RESPONSIBLE P<br>THAT THERE ARE SIGNIFICANT PE<br>1001 AND 33 USC § 1319. (PENALTIES<br>E YEARS.) | OR OBTAINING THE IN<br>NALTIES FOR SUBMIT<br>UNDER THESE STATUL | IFORMATION, I BELIEV<br>TING FALSE INFORMA<br>ES MAY INCLUDE FINES | 'E THE SUBMITTED<br>TION INCLUDING T | INFORMATION IS TR<br>HE POSSIBILITY OF I | UE, ACCURATE,  |
| - Zon  | NCIPAL EXECUTIVA OFFICER OR A  |   |  | 206 - 765<br>TELEPHONE NU            | 2-7170                                   |                |
| COMMENTS / EXPLANATIONS  |  |   |  |                                      |  |                |

### Analytical Report

Client:

Longview Fibre Company

Seattle Stormwater

Project Name: Project Number: NA

Sample Matrix: WATER

Service Request: K2308405

Date Collected: 10/22/03

Date Received: 10/24/03

Turbidity

Units: NTU

Basis: NA

Analysis Method 180.1

Test Notes:

Dilution Date Result Sample Name Lab Code MRL Factor Analyzed Result Notes #3 Roof Drain K2308405-003 0.1 10/24/03 1.9 Method Blank K2308405-MB 0.1 1 10/24/03 ND

Analytical Report

Client:

Project Name:

Seattle Stormwater

Project Number: NA

Sample Matrix: WATER

Longview Fibre Company

Service Request: K2308405

Date Collected: 10/22/03

Date Received: 10/24/03

рΗ

Units: pH UNITS

Basis: NA

Analysis Method 150.1 Test Notes:

Lab Code

MRL

Dilution Factor

Date Analyzed

Result

Result

Sample Name #3 Roof Drain

08/24/03

Notes

K2308405-003

7.35

## Analytical Report

Client: Project Name: Longview Fibre Company

Seattle Stormwater

Project No.: Matrix:

NA Water Service Request: K2308405 Date Collected: 10/22/03

Date Received: 10/24/03

Date Extracted: 11/06/03

Total Metals Units: ug/L (ppb)

Analyte:

Zinc

EPA Method:

6010B

Method Reporting Limit:

10

Date Analyzed:

11/12/03

Sample Name

Lab Code

#1 Roof Drain Method Blank K2308405-001

54 ND

K2308405-MB

Comments:

### Analytical Report

Client:

Longview Fibre Company

Project:

Seattle Stormwater .

Sample Matrix:

Water

Service Request: K2308405

**Date Collected:** 10/22/03 **Date Received:** 10/24/03

Date Extracted: 10/28/03 Date Analyzed: 10/28/03

Oil and Grease EPA Method 1664 Units: mg/L (ppm)

Oil & Grease, Total

Analyte:

(HEM)

Method Reporting Limit:

5.0

Sample Name

Lab Code

#2 Roof Drain

K2308405-002

ND

Method Blank

K031028-WB

ND



November 13, 2003

Service Request No: K2308405

Jim Mantell Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Stormwater

Dear Jim:

Enclosed are the results of the sample(s) submitted to our laboratory on October 24, 2003. For your reference, these analyses have been assigned our service request number K2308405.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

**Project Chemist** 

EW/jeb

Page 1 of 10

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the social dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### **Organic Data Qualifiers**

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic tingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the clution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

# - Cover Page -INORGANIC ANALYSIS DATA PACKAGE

| Client :<br>Project Name :<br>Project No. : | Longview Fibre Company<br>Seattle Stormwater<br>NA |   | Service Reques                                   | t: K2308405    |
|---|--|---|--|----------------|
|   | Sample Name:<br>#1 Roof Drain<br>Method Blank      |   | <u>Lab Code :</u><br>K2308405-001<br>K2308405-MB |                |
|   |  |   |  | •              |
|   |  |   |  |                |
|   |  |   |  |                |
|   |  |   |  |                |
|   |  | • |  |                |
| Comments:                                   |  |   |  |                |
|   |  |   | <b>.</b>   | <b>0</b> 00006 |

# Columbia Analytical Services Inc. Cooler Receipt And Preservation Form

| Project/Cli  | ent  | 1 +1BRE                       | <del>-</del>     | Work Order K             | 23                   | 8405           |               |
|--------------|--|-------------------------------|------------------|--------------------------|----------------------|----------------|---------------|
| Cooler rec   | eived on 10/24   | 03 a                          | nd opened o      | on 10/24/03              | by                   | 10             |               |
|              | . /  |                               |                  | ., — .—                  |                      | 1              |               |
| 1.           | Were custody seals of the seal of the seals of the seal of the s |                               | oler? –          |                          |                      |                | y 🕥           |
| 2.           | Were seals intact an   | d signature <sub>:</sub> & da | ate correct?     |                          |                      |                | <b>λ</b> _iη- |
| 3            | Is the shipper's airbi   | ill available and             | filed? If no,    | record airbill number    | er: <u>17.9034</u> 6 | 603100411      | 22 Y 🕅        |
| 4.           | COC #  |                               |                  |                          |                      |                |               |
|              | Temperature of cool  | er(s) upon recei              | pt:              | 4.6                      |                      |                |               |
|              | Temperature Blank:   |                               |                  | <u>N/P</u>               |                      |                |               |
| 5.           | Were custody papers  | s properly filled             | out (ink, sig    | ned, etc.)?              |                      |                | Ø N           |
| 6.           | Type of packing man  | terial present                | Burn             | O, MtSH                  | ·                    |                |               |
| 7.           | Did all bottles arrive   | in good conditi               | ∂<br>on (unbroke | n)?                      |                      |                | Ø N           |
| 8.           | Were all bottle label  | s complete (i.e.              | analysis, pre    | eservation, etc.)?       |                      |                | Ø N           |
| 9.           | Did all bonte labels   | and tags agree w              | ith custody      | papers?                  |                      |                | N             |
| 10.          | Were the correct typ   | es of bottles use             | d for the tes    | ts indicated?            |                      |                | M) N          |
| 11.          | Were all of the prese  | erved bottles rec             | eived at the     | lab with the appropri    | ate pH?              |                | N             |
| 12.          | Were VOA vials che   | cked for absenc               | e of air bubl    | oles, and if present, r  | ioted below?         |                | Y-N           |
| 13.          | Did the tottles origin   | nate from CAS/I               | K or a branc     | h laboratory?            |                      |                | Ø N           |
| 14.          | Are CWA Microbio   | logy samples rec              | cived with       | > 1/2 the 24 hr. hold to | ime remaining fro    | om collection? | YN            |
| 15. nes      | Was Cl2/Res negative   | /e?                           |                  |                          |                      |                | Y-N-          |
| Explain any  | discrepancies:   |                               |                  |                          |                      |                |               |
|              |  |                               |                  |                          |                      |                |               |
|              |  |                               |                  |                          |                      | ·              |               |
|              |  | <del></del>                   | <del></del>      |                          |                      |                |               |
| RESOLUT      | ION:   | <del></del>                   |                  |                          |                      |                |               |
| Samples that | required preservation or   | received out of te            | mperature:       |                          |                      |                |               |
|              | Sample ID  | Reagent                       | Volume           | Lot Number               | Bottle Type          | Rec'd out of   | Initials      |
|              | ·  | _                             |                  | <del></del>              |                      | Temperature    |               |
| <b></b>      |  |                               | <b></b>          |                          | <b></b>              |                |               |
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|              |  |                               |                  |                          |                      |                |               |
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| 1            |  | ll l                          | y 0              |                          | i                    | l i            |               |

CRFREV.DOC3/5/2003

| Columbia<br>Analytical                   |                |              |                    | CH               | IAI              | ۷ ٥                   | FC       | CUS            | STO          | )D                                      | Y                   |   |                 |         | -                  |  | ,                    |                       | SR               | #:         | K        | <u>Z3</u>    | 0840         |
|--|----------------|--------------|--------------------|------------------|------------------|-----------------------|----------|----------------|--------------|---|---------------------|---|-----------------|---------|--------------------|--|----------------------|-----------------------|------------------|------------|----------|--------------|--------------|
| Services NC. An Employee · Owned Company | 317 South 13th | h Ave. • Kel | so, WA 9           | 8626 •           | (360) 57         | 7-7222                | • (800   | ) 695-72       | 22x07        | • FAX                                   | (360)               | 636-10                                    | 068             | P       | AGE                |  |                      | OF                    |                  | _          | _co      | C #_         |              |
| PROJECT NAME S.E.A.TT L.F.               |                | 14 60        | 47 Fm              | <i>R</i>         | $\int$           |                       |          | BIEX.          | 1            | 7                                       |                     | 7   | 81514           | 7       | 7                  | T /                                    | 7                    | /<br>% /              | /<br>cr /        | 12908      | 7.,      | 7            | 7 # /        |
| COMPANY/ADDRESS                          | TREE           | <del></del>  |                    |                  | √ g              |                       | 30       | / <del>[</del> | ~/           |   | 8 /                 | _/  | 06/             | ,       |                    |  | $\sqrt{\frac{1}{4}}$ | Tolal-D'S (circle) 2. | ž /,             | 7/         |          | /            |              |
| 10000                                    |                | 13RA         |                    | 1.5-             | CONTAINERS       |                       | 186      |                | 00           | 1862                                    | / /                 | z] ;                                      | Felia C. 8751M  | 3/10    | t below) Dissolved | Hex-Chross                             |                      |                       | 40x 1650         | 3/         |          |              | /3/          |
| CITY/STATE/ZIP C 12.15TT .2              | VARCIU         | 63134        | <u>-ن-۸۹۰</u><br>ن | <u>/ &gt;-</u> / | ¥ Z              | $-\sqrt{\frac{5}{8}}$ | 8 8      | 8 30           |              | /z_                                     | / క్ట               | 8 6                                       | 18.0            | D MIS   | 088                | / Ş                                    | 4.5                  | 10.3                  | 13               | /          | /        | / ,          | / /          |
| E-MAIL ADDRESS JANINITAL.                |                | - FIBRE      |                    | /                | 8                | 4/8                   |          | 15.8           |              | ES                                      | ( 3/                | \$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |                 | 2/3     | 6 E/               | ٦ 🔻                                    | 200                  | 15 S                  | / <del>*</del> / | ′ /        | ' /      | ′ /          | /            |
| PHONE: 7/2 - 7/70                        |                | 767-         |                    | 7 6              | 5/2              |                       |          |                | <u> </u>     | \$ <u>#</u>                             |                     |   |                 |         |                    |  |                      |                       | \ \g             |            | _ /      |              | /            |
| SAMPLER'S BIGNATURE                      | 1/1            | ~ ~ ~        |                    | NOWBER C         |                  |                       |          |                |              | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Pesticides Congress |   | PAHS            | Metals, | Syaniga Chair      | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ?<br> <br>           | ( ) ( )               |                  |            |          | 1/           |              |
| AMPLE I.D. DATE                          | TIME           | LAB I.D.     | MATRIX             |                  |                  | <sup>%</sup> ~/_      | 88/₹     |                | 70           | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  | ిత్య                | OF  | 2               | /కొత్తి | / 3°               | /£ <                                   | \ <u>\{\xi}</u>      |                       | <u>/</u> ,       | <u>_</u>   |          |              | REMARKS      |
| 1/ REOF ORNE 10/22                       | 5.05 13        | . (          |                    | /                |                  |                       |          |                | <u> </u>     |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| '  |                |              |                    |                  |                  |                       |          |                |              |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| #2 Rear 02-10 1/22                       | 5:10 th        | 12           |                    | 1                |                  |                       |          |                |              |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
|  |                |              |                    |                  |                  |                       |          | 1              |              |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| #3 Acof ORAN 10/22                       | 5:15 P         | 1 1          |                    |                  |                  |                       |          | +              |              |   |                     |   |                 | $\neg$  |                    |  |                      |                       |                  |            |          |              |              |
| JACON DRAWIT / 22                        | 7713           |              |                    |                  |                  | -                     | +-       | +-             |              |   |                     |   |                 |         |                    |  |                      | -                     |                  |            |          | -            | <del> </del> |
|  |                | -            |                    |                  | 100 cm           | <del>- -</del>        | -        | +-             | +            | -                                       |                     |   | +               |         |                    |  |                      | <del> </del>          |                  |            | -        | <del> </del> | <del> </del> |
|  |                |              |                    |                  | CANAGA<br>CANAGA |                       |          |                | <del> </del> | <del> </del>                            |                     |   | <del>├</del> ─┼ |         |                    |  |                      | ├                     |                  |            | -        | ├            | <del> </del> |
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| REPORT REQUIREMENTS                      | P.O. #         | ICE INFOR    | MATION             | ' }              | Circle w         | hich_me               | tals are | to be an       | alyzed:      |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| I. Routine Report: Method                | Bill To:       |              |                    |                  | Total            | Metats:               | AI As    | Sb E           | Ba Be        | ВС                                      | a Cd                | Co (                                      | Cr Cu           | Fe      | Pb M               | 1g M                                   | n Mo                 | Ni o                  | K Ag             | Na         | Se S     | 3r Ti        | Sn V Zn Hg   |
| Blank, Surrogate, as required            | l              |              |                    | }                | Dissolve         | d Metals              | Al A     | s Sb I         | Ba Be        | ВС                                      | a Cd                | Co  | Cr Cu           | Fe      | Pb N               | /lg M                                  | In Mo                | o Ni                  | K Ag             | ) Na       | Se :     | 3r T≀        | Sn V Zn Hg   |
| II. Report Dup., MS, MSD as              |                | 0111D DE0    |                    |                  |                  |                       |          | IYDRO          |              |   |                     | DURE                                      | : AK            | CA      | WI                 | NO                                     | RTHV                 | VEST                  | ОТН              | ER:        |          | (CIF         | RCLE ONE)    |
| required                                 | 24 h           | OUND REC     | _48 hr.            | ENIS             | SPECI            | AL INS                | TRUC     | FIONS/         | COMM         | IENTS                                   | <b>3</b> :          |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| III. Data Validation Report              | 5 Da           |              | _ 10 111.          |                  |                  |                       |          |                |              |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| (includes all raw data)                  | Star           | ndard (10-15 | working (          | days)            |                  |                       |          |                |              |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| IV. CLP Deliverable Report               | Prov           | vide FAX Res | sults              | 1                |                  |                       |          |                |              |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| V. EDD                                   |                | quested Rep  | ort DAD            |                  |                  |                       |          |                |              |   |                     |   |                 |         |                    |  |                      |                       |                  |            |          |              |              |
| A RELINGUISHED BY:                       | I ried         | daesien ueb  | 7 /                | DE A             | IVED 2           | <b>V.</b> ,           |          |                |              |   | DE!                 | INO                                       | JISHEC          | ) DV:   |                    |  |                      |                       |                  |            | CEN      | ED BY        |              |
| Jana A June 1 0/22/                      | 19 6 PM        | 1/           | $U / J_{\alpha}$   | neve<br>M        | IVED B           | 24/0                  | 710      | احبيا          |              |   | nei                 | LINGL                                     | nanet           | , o i : |                    |  |                      |                       |                  | ri i       | .UEIV    | -001         | •            |
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| Printed Name Firm Fig.                   | RIJ CU         | Printe       | d Name             | 1-ich            | Fin              | n n                   | 1        |                | Pri          | nled N                                  | ame                 |   | Fin             | m       |                    |  | -                    | Print                 | ed Na            | me         |          | Firm         | 1 .          |





# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

| MONITORING PERIOD for (year/quarter): 2003 | .lan/Feh/Mar Apr/May/Jun Jul/Aug/Sep Oct/Nov/Dec |
|--|--|
| Facility/Site Information                  | Mailing Information                              |
| LONGVIEW FIBRE SEATTLE                     | LONGVIEW FIBRE COMPANY                           |
| Location: 5901 E MARGINAL WAY S            | PO BOX 639                                       |
| County: KING                               | LONGVIEW WA 98632-7411                           |
| Primary SIC Code: 2653                     |  |

You must send a Discharge Monitoring Report (DMR) to Ecology every quarter. If there was no discharge or you have suspended sampling because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

| Discharge Point      | ROOF DRAIN T.         | ৯ ০০২ ৮৯       | LC 41          |                   |               |                |
|----------------------|-----------------------|----------------|----------------|-------------------|---------------|----------------|
| There was no         | qualifying storm even | t this quarter | so no values a | re entered b      | elow (see exp | olanation)     |
| Quarterly Monitoring |                       | AVERAGE        | MAXIMUM        | UNITS             | Sample Type   | Events Sampled |
| Turbidity            | Consistent Attainment | 17.95          | 24.2           | NTU               | GRAB          | 2              |
| рН                   | Consistent Attainment | 7.26           | 7.28           | Standard<br>Units | CRAB          | 2              |
| Zinc (total)         | Consistent Attainment | 323.5          | 355            | μg/L              | GRAB          | 2              |
| Oil & Grease         | Consistent Attainment |                | 6              | mg/L              | Grab          |                |

| I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION.  |                       |                   |            |
|--|-----------------------|-------------------|------------|
| AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE IN<br>DMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (PENALTIES UNDER THESE STATUES MAY INCLUD<br>BETWEEN SIX MONTHS AND FIVE YEARS.) | FORMATION INCLUDING T | HE POSSIBILITY OF | F FINE AND |
| Tom Crais Plant Manner   | 7                     | 29                | ده         |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)  | DATE: MO              | DAY               | YEAR       |
| Tom Crain  | 206 76                | 2-7170            | )          |
| · · · · · · · · · · · · · · · · · · ·  |                       | MRED              |            |
| SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT   | TELEPHONE NU          | MIDER             |            |
| SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  COMMENTS / EXPLANATIONS  | TELEPHONE NO          |                   |            |
| \  | TELEPHONE NO          |                   |            |
| \  | TELEPHONE NO          | MULL              |            |
| \  | TELEPHONE NO          | MULK              |            |
| \  | TELEPHONE NO          | INDEK             |            |
| \  | TELEPHONE NO          | INDEK             |            |
| \  | TELEPHONE NO          | index.            |            |

# CULUMBIA ANALY HUAL SERVICES, INC.

## Analytical Report

Client:

Project Name:

Seattle Stormwater

Longview Fibre Company

Service Request: K2303811 Date Collected: 05/20/03

Date Received: 05/22/03

Project Number: NA Sample Matrix: Water

Turbidity

Units: NTU

Basis: NA

Analysis Method: 180.1

Test Notes:

|                    |              |     | Date     |        | Result |
|--------------------|--------------|-----|----------|--------|--------|
| Sample Name        | Lab Code     | MRL | Analyzed | Result | Notes  |
| Roof Drain #2 of 3 | K2303811-002 | 0.1 | 05/22/03 | 24.2   |        |
| Method Blank       | K2303811-MB  | 0.1 | 05/22/03 | ND     |        |
|                    |              |     |          |        |        |

Approved By

00005

Report By:MFirth

#### CULUIVIBIA ANALY FICAL SERVICES, INC.

Analytical Report

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater Project Number: NA Sample Matrix: Water

Service Request: K2303811

Date Collected: 05/20/03

Date Received: 05/22/03

pН

Units: pH UNITS

Basis: NA

Analysis Method: 150.1

Test Notes:

Sample Name

Lab Code

MRL

Date Analyzed

Result

Result Notes

Roof Drain #2 of 3

K2303811-002

05/22/03

7.24

Approved By

Date:

00006

Report By:MFirth

## **Analytical Report**

Client: Project Name: Longview Fibre Company

Project No.:

Seattle Stormwater

Matrix:

NA Water Service Request: K2303811

Date Collected: 05/20/03 Date Received: 05/22/03 Date Extracted: 05/29/03

Total Metals Units: ug/L (ppb)

Analyte:

Zinc

EPA Method: Method Reporting Limit:

6010B 10

Date Analyzed:

06/05/03

Sample Name

Lab Code

Roof Drain #1 of 3 Method Blank

K2303811-001 K2303811-MB 355 ND

Comments:

#### Analytical Report

Client:

Longview Fibre Company

Project Name: Project Number: NA

Seattle Stormwater

Date Collected: 05/20/03

Service Request: K2303811

Date Received: 05/22/03

Sample Matrix:

Water

Biochemical Oxygen Demand (5-day)

Units: mg/L (ppm)

Basis: NA

Analysis Method: 405.1 Test Notes:

Lab Code

MRL

Date Analyzed

Result

Result Notes

Roof Drain #3 of 3

Sample Name

K2303811-003

05/22/03

20

00004 Approved By

Report By:MFirth



June 10, 2003

Service Request No: K2303811

Jim Mantell Longview Fibre Company 5901 E. Marginal Way S. Seattle, WA 98124

RE: Seattle Stormwater

Dear Jim:

Enclosed are the results of the sample(s) submitted to our laboratory on May 22, 2003. For your reference, these analyses have been assigned our service request number K2303811.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Project Chemist

EW/jeb

Page 1 of <u>10</u>

cc:

Dave Mendenhall, Longview Fibre Hank Rakoz, Longview Fibre

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

#### Inorganic Data Qualifiers

- . The result is an outher. See case narrative
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A -- A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic lingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic tingerprint of the sample resembles a petroleum product cluting in approximately the correct earbon range, but the elution pattern does not match the culibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

# - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client:

Longview Fibre Company

Project Name:

Seattle Stormwater

Project No.:

NA

Service Request: K2303811

Sample Name:

Roof Drain #1 of 3 Method Blank Lab Code:

K2303811-001 K2303811-MB

Comments:

00007

Approved By:

Date:

LFC002606

| Colun<br>Ana<br>Serv | lytical<br>iceς ™ |
|----------------------|-------------------|
| PROJECT NAME         | ٠                 |

| Services  1317 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1021-07 - FAX (360) 585-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 577-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 578-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 578-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 578-7222 - (800) 985-1068  PAGE OF COC#  1717 South 13th Ave - Xelso, WA 98638 - (360) 578-7222 - (800) 985-7222 - (800 | Columbia<br>Analytical               |               |              |            | Cł                     | IAI  | N (          | OF   | C         | US        | TC      | )D    | Y                |                 |          |            |             |  |           |          | SR  | #:}             | (23             | 303          | 811         |
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| REPORT REQUIREMENTS   P.O. #   Bill To:   Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Pindicate State Hydrocarbon Procedure: AK CA Wi NORHTWEST OTHER: (CIRCLE ONE)    III. Data Validation Report (includes all raw data)  | RIDE DRAIN #3073 /20/c               | 3 4:55 BM     |              |            | /                      |  |              |  |           |           |         |       |                  |                 |          |            | <b>✓</b>    |  |           |          |     | <u> </u>        | <u> </u>        |              |             |
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| REPORT REQUIREMENTS   P.O. #   Bill To:   Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Pindicate State Hydrocarbon Procedure: AK CA Wi NORHTWEST OTHER: (CIRCLE ONE)    III. Data Validation Report (includes all raw data)  |                                      |               |              |            |                        |  |              |  |           |           |         |       |                  |                 |          |            |             |  |           |          |     |                 |                 |              |             |
| REPORT REQUIREMENTS   P.O. #   Bill To:   Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Pindicate State Hydrocarbon Procedure: AK CA Wi NORHTWEST OTHER: (CIRCLE ONE)    III. Data Validation Report (includes all raw data)  |                                      |               |              | <u> </u>   |                        |  |              |  |           |           |         |       |                  |                 |          | <u>L</u> _ |             |  |           |          |     |                 |                 |              |             |
| REPORT REQUIREMENTS   P.O. #   Bill To:   Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Snw V Zn Hg Pindicate State Hydrocarbon Procedure: AK CA Wi NORHTWEST OTHER: (CIRCLE ONE)    III. Data Validation Report (includes all raw data)  |                                      |               |              |            |                        |  |              | i  |           | <u> </u>  |         | L     |                  |                 |          | <u> </u>   |             | Ĺ  |           |          |     |                 |                 | L            |             |
| required II. Report Dup., MS, MSD as requiredIII. Data Validation Report (includes all raw data)IV. CLP Deliverable Report   | I. Routine Report: Method            | P.O. # _      |              |            | N                      | Tot  | al Meta      | ıls; Al  | As        | Sb B      | a Be    |       |                  |                 |          |            |             | _  |           |          | _   |                 |                 |              |             |
| required III. Data Validation Report (includes all raw data)IV. CLP Deliverable ReportV. EDD   | 1                                    |               |              |            |                        | Ĺ  |              |  |           |           |         |       |                  |                 |          |            |             |  |           |          |     |                 |                 | •            |             |
| Date Validation Report (includes all raw data)   |                                      | 10111171      |              |            | ENTS                   | SPE  | CIAL II      | NSTR   | UCTI      | ONS/C     | ОММ     | ENTS  | i;               |                 |          |            |             |  |           |          |     |                 |                 |              |             |
| IV. CLP Deliverable ReportProvide FAX Results  |                                      |               | ay           |            | davs)                  |  |              |  | •         |           |         |       |                  |                 |          |            |             |  |           |          |     |                 |                 |              |             |
| Requested Report Date  RELINQUISHED BY:  RECEIVED BY:  RECEIVED BY:  RECEIVED BY:  Signature  Received By:  Received By:  Received By:  Received By:  Received By:  Signature  Signature  Signature  Date/Time  Signature  Date/Time   | IV. CLP Deliverable Report           | t             |              | _          | <i>a</i> a, <i>a</i> , | 1  |              |  |           |           |         |       |                  |                 |          |            |             |  |           |          |     |                 |                 |              |             |
| RELINQUISHED BY:  RECEIVED BY:  RECEIVED BY:  RECEIVED BY:  RELINQUISHED BY:  RECEIVED BY:  Signature  Received BY:  Signature  Date/Time  Signature  Date/Time  Date/Time   | V. EDD                               | \             |              |            |                        | İ  |              |  |           |           |         |       |                  |                 |          |            |             |  |           |          |     |                 |                 |              |             |
| Signature Signature Signature Date/Time Signature Date/Time Signature Date/Time  | 25: 112:112:12                       |               | <del></del>  | port Date  |                        | İ  |              |  |           | г         |         |       |                  |                 |          |            | <del></del> |  |           |          |     |                 |                 |              |             |
| 1//Signature Date/Time   Signature Date/Time   Signature Date/Time   | Sun RMarle 5-                        | 20-03 6%      | 2 Par        | Man        | PEC.                   |  | spre         |  | 1000      | 2         |         |       |                  | _INQU           |          |            |             |  |           | -        |     | RE              | ECEIV           |              |             |
|  | //Signature Date/1                   | IIIIO         | z Sign       | PIND       | re                     | _ D  | ate/Tir      | ne<br>25   |           | _         | •       |       |                  |                 |          |            | ne<br>      |  |           | •        |     | me              |                 |              |             |

# Columbia Analytical Services Inc. Cooler Receipt And Preservation Form

| Project/Clic | ent                          | bre                           | Work Order K23                          |                                       | <u> 84</u>                             |                  |             |
|--------------|------------------------------|-------------------------------|---|---------------------------------------|--|------------------|-------------|
| Cooler reco  | eived on 5/22/1              | 3 and opened on               | 5/22/0                                  | by                                    | - 1×1                                  |                  | _           |
|              | <del></del> ,                |                               | (                                       |                                       |  |                  | <del></del> |
| 1.           | Were cuspody seals on o      | utside of cooler?             |   |                                       |  | Y (N             |             |
| 2.           |                              | manure & date correcti        | · —                                     | 0.5                                   |  | Y (N             | \<br>)      |
| 3.           | Is the shipper's airbill as  | vailable and filed? If no, i  | record airbill number                   | : <u>(1PS</u>                         |  | _ (`Y) N         |             |
| 4.           | COC#                         |                               |   | ·                                     |  |                  |             |
|              | Temperature of cooler(s      | ) upon receipt:               | 14.9                                    |                                       |  |                  |             |
|              | Temperature Blank:           |                               |   |                                       |  |                  |             |
| 5.           | Were custody papers pro      | operly filled out (ink, sign  | ed, etc.)?                              |                                       |  | YN               |             |
| 6.           | Type of packing materia      | l present                     | DVOKE                                   | nice                                  | iPa C.K.                               |                  |             |
| 7.           | Did all bottles arrive in    | good condition (unbroken)     | · · · · · · · · · · · · · · · · · · ·   | •                                     |  | Y N              |             |
| 8.           | Were all bottle labels co    | mplete (i.e. analysis, pres   | ervation, etc.)?                        |                                       |  | Ø N              |             |
| 9.           | Did all bottle labels and    | tags agree with custody pa    | apers?                                  |                                       |  | N (g)            |             |
| 10.          | Were the correct types of    | of bottles used for the tests | indicated?                              |                                       |  | Y) N             |             |
| 11.          | Were all of the preserve     | d bottles received at the la  | ib with the appropriat                  | e pH?                                 |  | Y) N             |             |
| 12.          | Were VOA vials checke        | d for absence of air bubbl    | es, and if present, no                  | ted below?                            |  | YN               |             |
| 13.          | Did the bottles originate    | from CAS/K or a branch        | laboratory?                             |                                       | ·                                      | (P) N            |             |
| 14.          | Are CWA Microbiology         | samples received with >       | 1/2 the 24 hr. hold tim                 | ne remaining fro                      | m collection?                          | . <del>Y</del> N |             |
| 15.          | Was Cl2/Res negative?        | 01                            | 1 1 . 1                                 |                                       |  | <u>Y_N</u>       |             |
| Explain any  | y discrepancies:             | Recd PH                       | arest liold                             | ·                                     |  |                  |             |
|              |                              | \                             | \<br>                                   |                                       | <del></del>                            |                  |             |
|              |                              |                               |   | <del></del>                           | •                                      |                  |             |
|              | - n 1                        |                               | -/                                      | · · · · · · · · · · · · · · · · · · · | 1                                      |                  |             |
| RESOLUT      | ION: 100 07                  | We Steply                     | Me - OK                                 | to 701                                | T Ew                                   | <u> </u>         | 27/13       |
| Samples that | required preservation or rec | eived out of temperature:     | /All Sam                                | oles re                               | CLOU                                   | f 2+1            | emp         |
|              | Sample ID                    | Reagent Volume                | Lot Number                              | Bottle Type                           | Rec'd out of<br>Temperature            | Initials         | 1           |
| <b> </b>     |                              |                               |   |                                       | Temperature                            |                  |             |
|              | <del></del>                  |                               |   |                                       |  |                  |             |
|              |                              | JUPS Gro                      | ounce                                   |                                       |  |                  |             |
|              | 40                           |                               | 111111111111111111111111111111111111111 |                                       |  |                  |             |
|              |                              |                               |   |                                       |  |                  |             |
|              | 1000                         |                               |   |                                       |  |                  |             |
|              |                              |                               | 17 903 466 03 100                       | 3 741 3                               | 1077 M                                 |                  |             |
|              |                              |                               | TRACKING NUMBER                         |                                       |  | ۱ ۸ ۸            | 110         |
|              |                              |                               |   | ·                                     |  | <del>V V I</del> | 10          |
| L            |                              | <u> </u>                      |   | <u> </u>                              | الــــــــــــــــــــــــــــــــــــ |                  |             |

CRFREV.DOC3/5/2003

## Columbia Analytical Services Inc. Cooler Receipt And Preservation Form

| Project/Clie | nt love                    | i Talbi       | jt<br>         |                | Work Order K                          | 23 <i>03797</i>   |                |                    |
|--------------|----------------------------|---------------|----------------|----------------|---------------------------------------|-------------------|----------------|--------------------|
| Cooler rece  | eived on                   | 5/21/         | <u>B</u> a     | nd opened o    | 5/4/03                                | by                | Blace          | <u>k</u>           |
| 1.           | Were custody If yes, how m |               |                | oler?          | ifant                                 |                   |                | Ø n                |
| 2.           | Were seals in              | _             |                |                |                                       |                   |                | € N                |
| 3.           | Is the shipper             | 's airbill av | ailable and    | filed? If no,  | record airbill numb                   | er: 96/10142      | 604136         | _ <b>②</b> N       |
| 4.           | COC#                       |               |                |                |                                       |                   |                |                    |
|              | Temperature                | of cooler(s)  | upon recei     | pt:            | 4.5                                   |                   |                |                    |
|              | Temperature :              |               | -              |                | 3.1                                   |                   |                |                    |
| 5.           | Were custody               | papers pro    | perly filled   | out (ink, sign | ned, etc.)?                           |                   |                | $Q_N$              |
| 6.           | Type of packi              | ing material  | present        | insco7s        | - gil pads                            |                   |                |                    |
| 7.           | Did all bottles            |               |                |                |                                       |                   |                | Ø N                |
| 8.           | Were all bottl             | e labels cor  | nplete (i.e.   | analysis, pre  | servation, etc.)?                     |                   |                | PN                 |
| 9.           | Did all bottle             | labels and t  | ags agree w    | vith custody p | papers?                               |                   |                | $\mathfrak{S}_{N}$ |
| 10.          | Were the corr              | rect types of | f bottles use  | d for the test | s indicated?                          |                   |                | (Y) N              |
| 11.          | Were all of th             | ne preserved  | i bottles rec  | eived at the l | ab with the appropri                  | iate pH?          |                |                    |
| 12.          | Were VOA v                 | ials checked  | for absenc     | e of air bubb  | oles, and if present, i               | noted below?      |                | $\mathcal{G}_{N}$  |
| 13.          | Did the bottle             | s originate   | from CAS/I     | K or a brancl  | a laboratory?                         |                   |                | (Y) N              |
| 14.          | Are CWA Mi                 | icrobiology   | samples rec    | ceived with >  | > ½ the 24 hr. hold t                 | ime remaining fro | om collection? | YN                 |
| 15.          | Was Cl2/Res                | negative?     |                |                |                                       |                   |                | XN                 |
| Explain any  | discrepancies:             |               |                |                |                                       |                   |                | ·                  |
|              |                            |               |                |                |                                       |                   |                |                    |
|              |                            |               | <del></del>    |                | ·                                     |                   |                |                    |
|              |                            |               |                |                |                                       |                   |                | <del></del>        |
| RESOLUT      | ION <u>:</u>               |               | ·              |                |                                       |                   |                |                    |
| Samples that | required preserv           | ation of rece | ived out of te | emperature:    |                                       |                   |                |                    |
|              | Sample ID                  |               | Reagent        | Volume         | Lot Number                            | Bottle Type       | Rec'd out of   | Initials           |
| <b></b>      |                            |               |                | 1              |                                       | <del> </del>      | Temperature    |                    |
| ļ            |                            |               |                |                | · · · · · · · · · · · · · · · · · · · | <del> </del>      |                |                    |
| <b></b>      |                            |               | ·              |                |                                       |                   |                |                    |
|              |                            |               | <del></del>    |                | <del></del>                           | ļ                 |                |                    |
|              |                            |               |                |                | - <u></u>                             |                   |                |                    |
|              |                            | ·             |                |                |                                       |                   |                |                    |
|              | -                          |               |                |                |                                       |                   |                | 00009              |
|              |                            |               |                |                |                                       |                   |                |                    |
|              | · ·                        |               |                |                |                                       |                   |                |                    |

CRFREV.DOC3/5/2003

# SO3-000206D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

| MONITORING PERIOD                                      | for (year/quarter): 200  | Jan/Feb                                   | /Mar Apr/N                                | day/Jun J                             | ul/Aug/Sep             | Oct/Nov/Dec               |
|--|--|---|---|---------------------------------------|------------------------|---------------------------|
| Facilit  | v/Site Information   |   |   | Mailing Inf                           | ormation               |                           |
| LONGVIEW FIBRE S                                       |  | <del> </del>                              | LONGVIEW FI                               |                                       |                        |                           |
| Location: 5901 E MAR                                   |  |   | PO BOX 639                                | BRE COMPA                             | IN I                   |                           |
| County: KING   | CONTRACTOR OF THE CONTRACTOR O |   | LONGVIEW W                                | A 98632-7411                          | 1                      |                           |
| <b>,</b> -   | Primary SIC Code:  |   |   |                                       |                        |                           |
|  |  |   |   |                                       |                        |                           |
| on must send a Discl                                   | harge Monitoring Repor   | t (DMR) to Foo                            | nlogy every ai                            | arter If ther                         | e was <b>no disc</b> l | narge or von ha           |
|  | because of consistent at   |   |   |                                       |                        |                           |
|  | ise read the instructions  |   |   | , man me up                           | propriate conc         |                           |
| ·  |  |   |   | ··· <del></del>                       |                        |                           |
| Discharge Point  | ROOF DRAIN T   | 005 FA                                    | LC 121                                    |                                       |                        |                           |
| There was no   | qualifying storm ever  | t this quarter                            | so no values a                            | are entered b                         | elow (see exp          | olanation)                |
| Quarterly Monitoring                                   |  | AVERAGE                                   | MAXIMUM                                   | UNITS                                 | Sample Type            | Events Sampled            |
| Turbidity  | Consistent Attainment  | 17.95                                     | 24.2                                      | NTU                                   | GRAB                   | 2                         |
| рН   | Consistent Attainment  | 7.26                                      | 7.28                                      | Standard<br>Units                     | GRAB                   | 2                         |
| Zinc (total)   | Consistent Attainment  | 323.5                                     | 355                                       | μg/L                                  | GRAB                   | 2                         |
| Oil & Grease   | Consistent Attainment  |   | 6   | mg/L                                  | Grab                   | 1                         |
|  |  |   |   |                                       |                        |                           |
| INQUIRY OF THOSE INDIVIDUA<br>AND COMPLETE, I AM AWARE | LAW THAT I HAVE PERSONALLY E<br>LS IMMEDIATELY RESPONSIBLE FO<br>THAT THERE ARE SIGNIFICANT PE<br>1001 AND 33 USC § 1319. (PENALTIES<br>TE YEARS.)   | OR OBTAINING THE IN<br>NALTIES FOR SUBMIT | FORMATION, I BELIE'<br>TING FALSE INFORMA | ve the submitted<br>Ation including t | INFORMATION IS TR      | UE, ACCURATE,<br>TINE AND |
| - ^  | <u> </u>   |   | <del></del>                               |                                       | <del></del>            |                           |
| Tom (r   | ais Plant  | Manager                                   | _   | フ                                     | 29                     | 20                        |
| NAME/TITLE PRINC                                       | CIPAL EXECUTIVE OFFICER (TYPER   | OR PRINTED)                               | <del></del>                               | DATE: MO                              | DAY                    | YEAR                      |
| · /om (  | 14'  |   |   | 206 26                                | 2-7170                 |                           |
|  | INCIPAL EXECUTIVE OFFICER OR A   | LITHORIZED AGENT                          |   | TELEPHONE NL                          |                        | <del></del>               |
| COMMENTS / EXPLANATIONS                                |  |   |   |                                       |                        |                           |
| COMMENS / CALLANA HORS                                 |  |   |   |                                       |                        |                           |
|  |  |   |   |                                       |                        | İ                         |
|  |  |   |   |                                       |                        |                           |
|  |  |   |   |                                       |                        |                           |
|  |  |   |   |                                       |                        |                           |
|  |  |   |   |                                       |                        |                           |